

سلسلة الطارق في الرياضيات - هيكل 9 عام ريفيل



تم تحميل هذا الملف من موقع المناهج الإماراتية

موقع المناهج ← المناهج الإماراتية ← الصف التاسع العام ← رياضيات ← الفصل الثالث ← ملفات متنوعة ← الملف

تاريخ إضافة الملف على موقع المناهج: 00:19:00 2026-06-22

ملفات اكتب للمعلم اكتب للطالب ا اختبارات الكترونية ا اختبارات ا حلول ا عروض بوربوينت ا أوراق عمل
منهج انجليزي ا ملخصات وتقارير ا مذكرات وبنوك ا الامتحان النهائي ا للمدرس

المزيد من مادة
رياضيات:

إعداد: طارق علي

التواصل الاجتماعي بحسب الصف التاسع العام



صفحة المناهج
الإماراتية على
فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

المزيد من الملفات بحسب الصف التاسع العام والمادة رياضيات في الفصل الثالث

ملزمة وفق الهيكل

1

اختبار مراجعة وفق الهيكل

2

مراجعة النحو قبل الامتحان

3

حل أسئلة أنظمة المعادلات الخطية: أسئلة وفق الهيكل

4

نموذج تدريبي 1 غير محلول

5

الطارق

سلسلة

الرياضيات

منطقة طارق أكاديمي للرياضيات

Tarek Academy

هيكل 9 عام ريفيل 2026

مرفع تاسع (عام ريفيل)

طارق

أستاذ الرياضيات

0562854282 037637703

Mr. Tarek Ali

منصة طارق أكاديمي

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Q1-MCQ 7-2

Example 1 Solve a System by Substitution

Use substitution to solve the system of equations.

$$3x - y = -7; y = 4x + 11$$

x, y in same side

$$3x - y = -7$$

$$-4x + y = 11$$

mode $\rightarrow 5 \rightarrow 1$ es

mode $\rightarrow$ equation

1 $\rightarrow$ 2

ex
AR

$(-5, -4)$ (A)

$(-4, -5)$ (B)

$(4, 19)$ (C)

$(-1, 4)$ (D)

Use substitution to solve each system of equations.

$$1. y = 5x + 1$$

$$4x + y = 10$$

$$-5x + y = 1$$

$$4x + y = 10$$

mode $\rightarrow 5 \rightarrow 1$ es

mode $\rightarrow$ equation

1 $\rightarrow$ 2

ex
AR

$(1, 6)$ (A)

$(6, 1)$ (B)

$(2, 11)$ (C)

$(-1, -4)$ (D)

$$2. y = 4x + 5$$

$$2x + y = 17$$

$$-4x + y = 5$$

$$2x + y = 17$$

$(3, 11)$ (A)

$(17, 0)$ (B)

$(2, 13)$ (C)

$(2, 5)$ (D)

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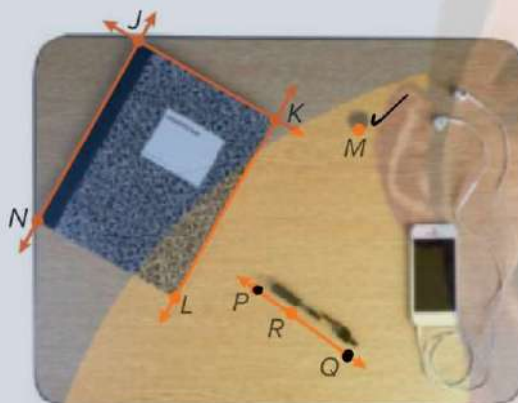
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Q2-MCQ 10-2

Example 2 Model Points, Lines, and Planes

STUDENT DESK Name the geometric terms modeled by the objects in the picture.



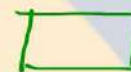
* Point



* line



* plane



* intersection plane

- ☒ A) The magnet M models a point, the pen $\overleftrightarrow{PQ}$ models a line, and the surface of the desk models a plane.
- ☐ B) The magnet M models a plane, the edge of the notebook $\overleftrightarrow{JK}$ models a point, and the surface of the desk models a line.
- ☐ C) The pen $\overleftrightarrow{PQ}$ models a point, the magnet M models a line, and the surface of the desk models a plane.
- ☐ D) The edge of the notebook $\overleftrightarrow{JN}$ models a plane, the magnet M models a line, and the pen $\overleftrightarrow{PQ}$ models a point.

Name the geometric terms modeled by each object or phrase.

8. one solar panel



A) Line

B) Point

☒ C) Plane

D) Intersection of two planes

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9. a tabletop



A) Line

B) Point

✓ C) Plane

D) Intersection of two planes

10. bridge support beam



✓ A) Line

B) Point

C) Plane

D) Intersection of two planes

11. a chessboard



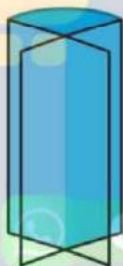
A) Line

B) Point

✓ C) Plane

D) Intersection of two planes

12.



A) Line

B) Point

C) Plane

✓ D) Intersection of two planes

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13.



A) Line

☒ B) Point

C) Plane

D) Intersection of two planes

14. a wall and the floor

A) Line

B) Point

C) Plane

☒ D) Intersection of two planes

15. the edge of a table

☒ A) Line

B) Point

C) Plane

D) Intersection of two planes

16. two connected walls

A) Line

B) Point

C) Plane

☒ D) Intersection of two planes

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17. a blanket

A) Line

B) Point

☒ C) Plane

D) Intersection of two planes

18. a telephone pole

☒ A) Line

B) Point

C) Plane

D) Intersection of two planes

19. a computer screen

A) Line

B) Point

☒ C) Plane

D) Intersection of two planes

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Q3-MCQ 10-3

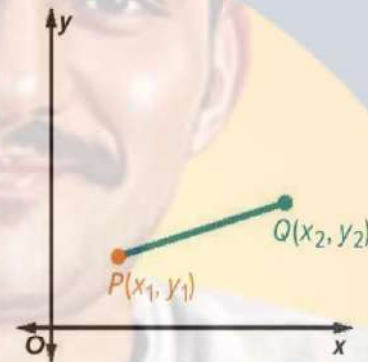
Learn Distance on the Coordinate Plane

The endpoints of a segment on the coordinate plane can be used to find the length of that segment by using the Distance Formula.

Key Concept • Distance Formula on the Coordinate Plane

If P has coordinates (x_1, y_1) and Q has coordinates (x_2, y_2) , then

$$PQ = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}.$$



Example 3 Find Distance on the Coordinate Plane

Find the distance between $J(4, 3)$ and $K(-3, -7)$.

A) $\sqrt{53}$ units

B) $\sqrt{149}$ units

C) $\sqrt{17}$ units

D) 13 units

$$JK = \sqrt{(4 - (-3))^2 + (3 - (-7))^2}$$

$$= \sqrt{149}$$



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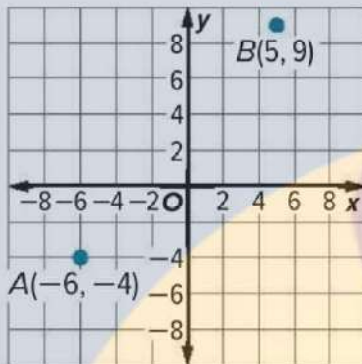
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Check

Find the distance between A and B.



A) $\sqrt{106}$ units

B) 12 units

C) $\sqrt{290}$ units

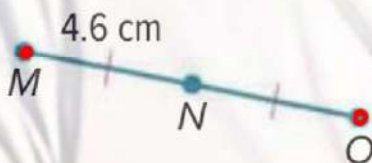
D) $\sqrt{26}$ units

$$\sqrt{(5 - (-6))^2 + (9 - (-4))^2}$$

$$= \sqrt{290}$$

Q4-MCQ 10-3

Find the measure of each segment.

28. $\overline{MO}$ 

$$\overline{MO} = 4.6 + 4.6 \text{ or}$$

$$= 2(4.6)$$

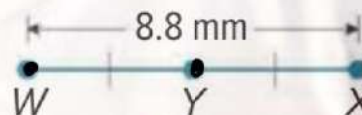
$$= 9.2$$

A) 4.6 cm

B) 9.2 cm

C) 2.3 cm

D) 13.8 cm

29. $\overline{WY}$ 

$$\overline{WY} = \frac{8.8}{2}$$

$$= 4.4$$

A) 4.4 mm

B) 8.8 mm

C) 17.6 mm

D) 2.2 mm

Big $\rightarrow +$
 Small $\rightarrow -$
 midpoint $\rightarrow \text{are} =$

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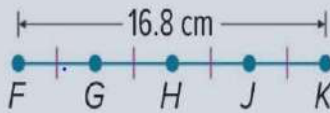
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30. $\overline{FG}$ 

4 distance

only one

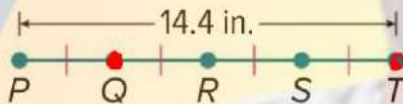
$$\Rightarrow \overline{FG} = \frac{16.8}{4} = 4.2$$

A) 8.4 cm

B) 5.6 cm

C) 3.36 cm

✓ D) 4.2 cm

31. $\overline{QT}$ 

4 distance

$$* \text{only one } \frac{14.4}{4} = 3.6$$

3 distance

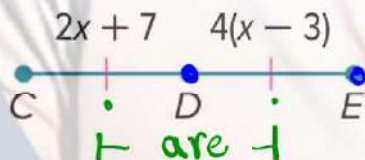
$$* 3 \times 3.6 = 10.8$$

A) 3.6 in.

B) 7.2 in.

✓ C) 10.8 in.

D) 14.4 in.

32. $\overline{DE}$ 

are 1

$$* 2x + 7 = 4(x - 3) \text{ shift}$$

Solve =

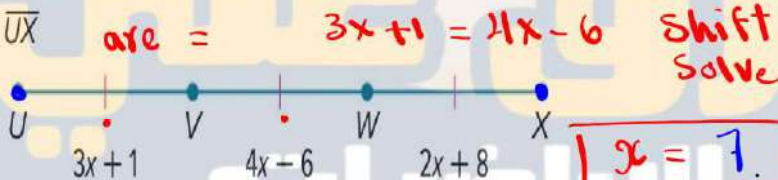
$$\boxed{x = 9.5}$$

A) 11 units

B) 19 units

✓ C) 26 units

D) 38 units

33. $\overline{UX}$ 

are =

$$3x + 1 = 4x - 6 \text{ shift}$$

Solve =

$$\boxed{x = 7}$$

3 distance

A) 7 units

B) 22 units

C) 44 units

✓ D) 66 units

$$\overline{UX} = 3(3x + 1) = 3[3(7) + 1]$$

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Example 5 Write and Solve Equations by Using Congruence

Find the value of x if Q is between P and R , $PQ = 6x + 20$, $QR = 2(x + 6)$, and $\overline{PQ} \cong \overline{QR}$.



A. $x=3$

B. $x=1$

C. $x=2$

D. $x=-2$

are =

$$6x + 20 = 2(x + 6)$$

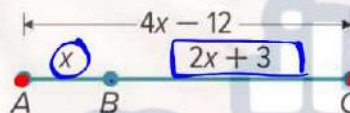
Shift $\rightarrow$ solve $\rightarrow$ =

$$x = -2$$

Q5-MCQ 10-3

Example 3 Write and Solve Equations to Find Measurements

Find the value of x and BC if B is between A and C , $AC = 4x - 12$, $AB = x$, and $BC = 2x + 3$.



A) $x = 15$, $BC = 33$

B) $x = 9$, $BC = 21$

C) $x = 15$, $BC = 48$

D) $x = 5$, $BC = 13$

Big = Sum of Smaller

$$4x - 12 = x + 2x + 3$$

Shift $\rightarrow$ solve $\rightarrow$ = $x = 15$

$$* BC = 2x + 3 = 2(15) + 3 = 33$$

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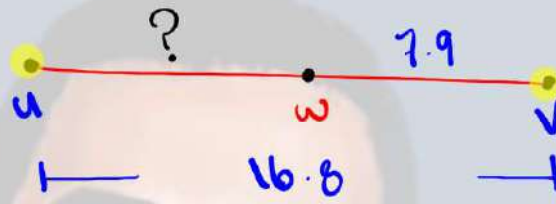
34. Find the length of $\overline{UW}$ if W is between U and V , $UV = 16.8$ centimeters, and $VW = 7.9$ centimeters.

A) 24.7 cm

B) 9.9 cm

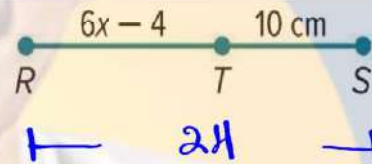
✓ C) 8.9 cm

D) 11.1 cm



$$UW \text{ (smaller } \rightarrow -) = 16.8 - 7.9$$

35. Find the value of x if $RS = 24$ centimeters.

✓ A) $x = 3$ B) $x = 5$ C) $x = 2.5$ D) $x = 4$ Big $\rightarrow +$

$$6x - 4 + 10 = 24$$

Shift $\rightarrow$ solve $\rightarrow =$

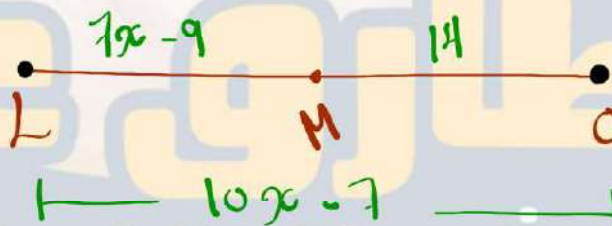
36. Find the length of $\overline{LO}$ if M is between L and O , $LM = 7x - 9$, $MO = 14$ inches, and $LO = 10x - 7$.

A) 4 inches

B) 19 inches

✓ C) 33 inches

D) 47 inches



$$10x - 7 = 7x - 9 + 14 \Rightarrow \boxed{x = 4}$$

$$*LO = 10(4) - 7 = \boxed{33}$$

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37. Find the value of x if $\overline{PQ} \cong \overline{RS}$, $PQ = 9x - 7$, and $RS = 29$.

A.3

✓ B.4

C.5

D.6

Q6-MCQ 7-2

Use substitution to solve each system of equations.

$$\begin{aligned} 1. \quad y &= 5x + 1 \\ 4x + y &= 10 \end{aligned}$$

A.(2,13)

✓ B.(1,6)

C.No Solution

D.infinitely many solution

$$-5x + y = 1$$

$$4x + y = 10$$

! 8

mode $\rightarrow$ equ $\rightarrow$ 1 $\rightarrow$ 2

Use substitution to solve each system of equations.

$$\begin{aligned} 2. \quad y &= 4x + 5 \\ 2x + y &= 17 \end{aligned}$$

✓ A.(2,13)

B.(1,6)

C.No Solution

D.infinitely many solution

$$-4x + y = 5$$

$$2x + y = 17$$

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9. $x = y - 1$

$$-x + y = -1$$

$$\begin{aligned} x - y &= -1 \\ -x + y &= -1 \end{aligned}$$

mode

5

es

1

A.(2,13)

B.(1,6)

✓ C.No Solution

D.infinitely many solution

10. $y = -4x + 11$

$$3x + y = 9$$

$$4x + y = 11$$

$$3x + y = 9$$

✓ A.(2,3)

B.(1,6)

C.No Solution

D.infinitely many solution

11. $y = -3x + 1$

$$2x + y = 1$$

$$\rightarrow 3x + y = 1$$

$$2x + y = 1$$

A.(2,13)

✓ B.(0,1)

C.No Solution

D.infinitely many solution

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Q7-MCQ 7-3

Use elimination to solve each system of equations.

1. $-v + w = 7$
 $v + w = 1$

A) $(4, -3)$

☒ B) $(-3, 4)$

C) $(3, -2)$

D) $(-4, 5)$

بالإزالة

2. $y + z = 4$
 $y - z = 8$

~~A) $(6, -2)$~~

B) $(-2, 6)$

C) $(2, 2)$

D) $(6, 2)$

بالإزالة

3. $-4x + 5y = 17$
 $4x + 6y = -6$

A) $(2, -3)$

☒ B) $(-3, 1)$

C) $(-3, -1)$

D) $(1, -3)$

4. $5m - 2p = 24$
 $3m + 2p = 24$

☒ A) $(6, 3)$

B) $(0, 6)$

C) $(6, 0)$

D) $(4, 2)$



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Q8-MCQ 7-3

5. $a + 4b = -4$
 $a + 10b = -16$

A) $m = 6, p = 3$

B) $m = 8, p = 0$

C) $m = 6, p = -3$

☒ D) $m = 4, p = -2$

6. $6r - 6t = 6$
 $3r - 6t = 15$

A. (2,13)

☒ B. (-3,-4)

C.No Solution

D.infinitely many solution

7. $6c - 9d = 111$
 $5c - 9d = 103$

☒ A. (8,-7)

B. (5,-3)

C.No Solution

D.infinitely many solution

8. $11f + 14g = 13$
 $11f + 10g = 25$

A. (8,-7)

☒ B. (5,-3)

C.No Solution

D.infinitely many solution



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Q9-MCQ 7-3

Example 2 Write and Solve a System of Equations Using Addition

Seven times a number x minus four times another number y is thirteen. Negative seven times a number x plus seven times another number y is fourteen. Find the numbers.

☒ A) $(1, 9)$

B) $(3, 2)$

C) $(5, \frac{11}{3})$

D) $(1, -\frac{3}{2})$

$$\begin{aligned} 7x - 4y &= 13 \\ -7x + 7y &= 14 \end{aligned}$$

28. Twice a number added to another number is 15. The sum of the two numbers is 11. Find the numbers.

A) $(3, 8)$

B) $(5, 6)$

☒ C) $(4, 7)$

D) $(2, 9)$

$$2x + y = 15$$

$$x + y = 11$$

29. Twice a number added to another number is -8 . The difference of the two numbers is 2. Find the numbers.

A) $(-3, -2)$

B) $(-5, -3)$

C) $(-1, -6)$

☒ D) $(-2, -4)$

$$2x + y = -8$$

$$x - y = 2$$

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30. The difference of two numbers is 2. The sum of the same two numbers is 6. Find the numbers.

A) (5, 3)

B) (6, 4)

☒ C) (4, 2)

D) (3, 1)

$$x - y = 2$$

$$x + y = 6$$

Q10-MCQ 7-4

Example 1 Elimination Using Multiplication

Use elimination to solve the system of equations.

$$10x + 5y = 30$$

$$5x - 3y = -7$$

A. (2, 13)

☒ B. (1, 4)

C. No Solution

D. infinitely many solution

Mode $\rightarrow$ eqn $\rightarrow 1 \rightarrow 2$

Mode $\rightarrow \bar{r} \rightarrow 1$ res

Use elimination to solve each system of equations.

$$\begin{aligned} 1. \quad x + y &= 2 \\ -3x + 4y &= 15 \end{aligned}$$

A. (-2, 6)

☒ B. (-1, 3)

C. No Solution

D. infinitely many solution

$$\begin{aligned} 2. \quad x - y &= -8 \\ 7x + 5y &= 16 \end{aligned}$$

☒ A. (-2, 6)

B. (-1, 3)

C. No Solution

D. infinitely many solution

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3. $x + 5y = 17$
 $-4x + 3y = 24$

A.(-2,6)

☒ B.(-3,4)

C.No Solution

D.infinitely many solution

4. $6x + y = -39$
 $3x + 2y = -15$

☒ A.(-7,3)

B.(-2,3)

C.No Solution

D.infinitely many solution

5. $2x + 5y = 11$
 $4x + 3y = 1$

A.(-7,3)

☒ B.(-2,3)

C.No Solution

D.infinitely many solution

Q11-MCQ 10-2

Example 1 Name Lines and Planes

Use the figure to name each of the following.

a. a line containing point Q

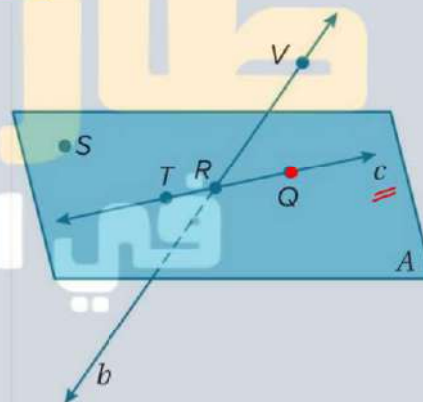
TR, RT
 TQ, QT
 RQ, QR

A) line b

B) line V

☒ C) line c

D) line S



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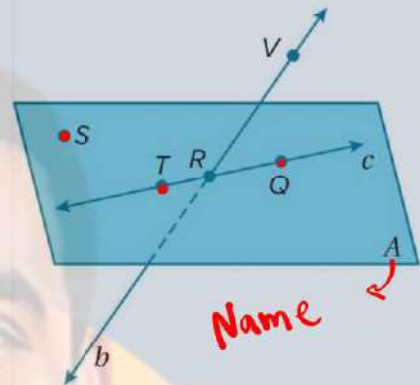
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b. a plane containing point S and point T A) plane V B) plane b ☒ C) plane A D) plane S

any 3 point
not
lie on same
line

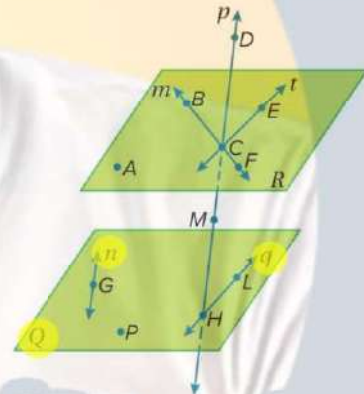
☒ A. plane QST

B. plane STV

C. plane QVS

D. plane VST

Refer to the figure for Exercises 1–7.

1. Name the lines that are only in plane Q .A) lines m and t B) line p ☒ C) lines n and q D) line n only

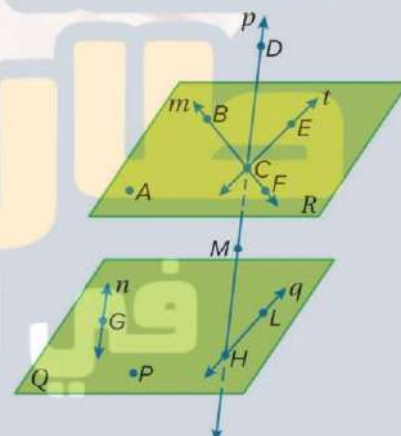
2. How many planes are labeled in the figure?

A) 4

☒ B) 2

C) 3

D) 1



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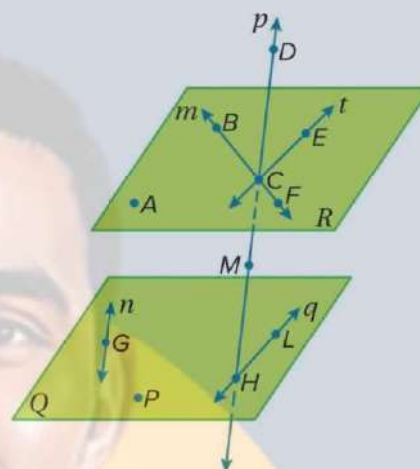
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3. Name the plane containing the lines m and t .

A) plane Q B) plane P C) plane R D) plane C 

4. Name the intersection of lines m and t .

A) point E B) point B C) point F D) point C

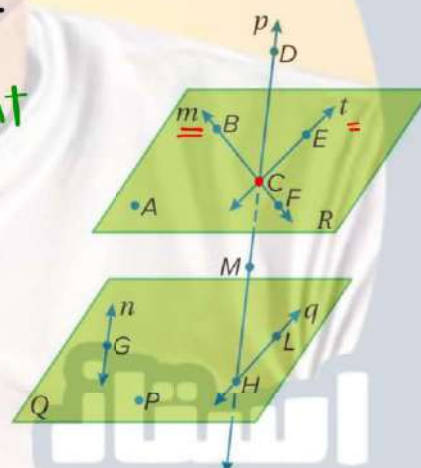
line with point

↓
point

2 planes

↓
line

2 lines

↓
point

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Q12-MCQ 10.2

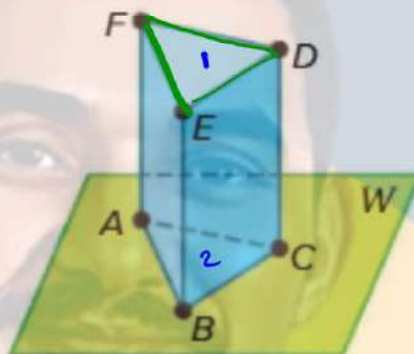
25. How many planes are shown in the figure?

- A. 2

- B. 3

- C. 4

- ~~D. 5~~



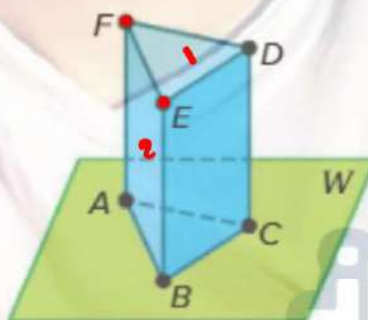
26. How many of the planes contain points F and E?

- A. 1

- B. 2**

- C. 3

- D. 4



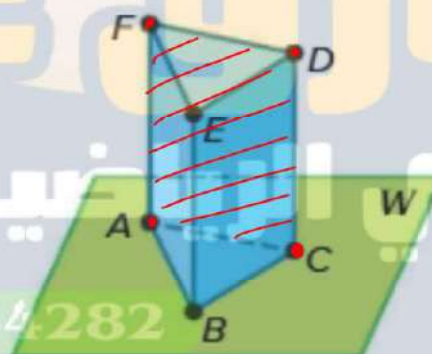
27. Which set of four points is coplanar?

- A. A, B, C, D

- B. A, B, C, E

- ~~C~~. A, C, D, F

- D. A, E, F, W



↳ in the game plane

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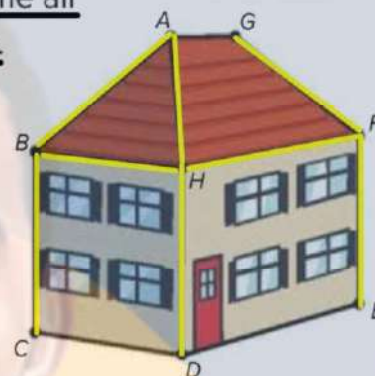
29. **BUILDING** The roof and exterior walls of a house represent intersecting planes. Using the image, name all the lines that are formed by the intersecting planes.

a) $\overleftrightarrow{AB}, \overleftrightarrow{AH}, \overleftrightarrow{AG}, \overleftrightarrow{GF}, \overleftrightarrow{BH}, \overleftrightarrow{HF}, \overleftrightarrow{BC}, \overleftrightarrow{HD}, \overleftrightarrow{FE}$

b) $\overleftrightarrow{AB}, \overleftrightarrow{AH}, \overleftrightarrow{AG}, \overleftrightarrow{BH}, \overleftrightarrow{HF}, \overleftrightarrow{BC}, \overleftrightarrow{HD}$

c) $\overleftrightarrow{AB}, \overleftrightarrow{AH}, \overleftrightarrow{GF}, \overleftrightarrow{BH}, \overleftrightarrow{HF}, \overleftrightarrow{HD}, \overleftrightarrow{FE}$

d) $\overleftrightarrow{BC}, \overleftrightarrow{HD}, \overleftrightarrow{FE}, \overleftrightarrow{CD}, \overleftrightarrow{DE}$



Q13-MCQ 10.2

EX.4

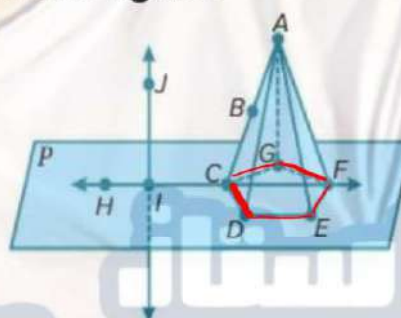
1. How many planes appear in this figure?

A. 4

B. 5

C. 6

D. 7



2. Which set of points are collinear?

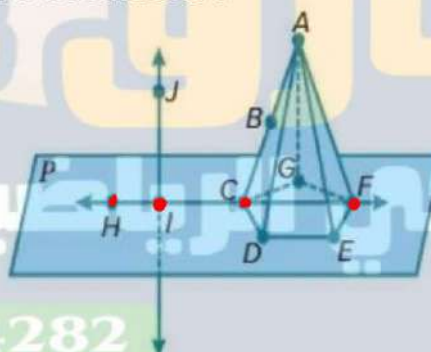
A. A, B, C, D

B. C, D, E, F

C. H, I, C, F

D. A, G, D, E

on The same line.



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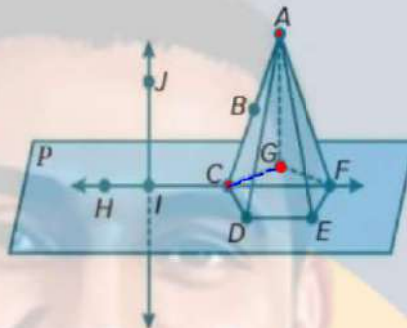
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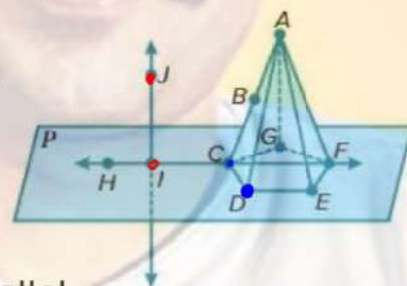
3. What is the intersection of plane GAC and plane P ?

A. $\overleftrightarrow{CF}$ B. $\overleftrightarrow{GC}$ C. $\overleftrightarrow{DE}$ D. $\overleftrightarrow{HI}$ 

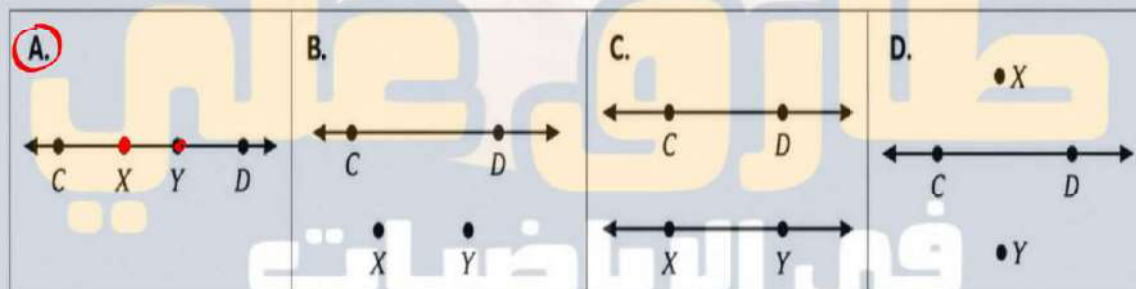
4. Do lines $\overleftrightarrow{JI}$ and $\overleftrightarrow{DC}$ intersect?

A. Yes, they intersect at point I .B. Yes, they intersect at point C .C. No, because the lines are parallel.

D. No, because $\overleftrightarrow{DC}$ lies in plane P , but only point I of $\overleftrightarrow{JI}$ lies in plane P .



20. Which figure shows that points X and Y lie on line $\overleftrightarrow{CD}$?



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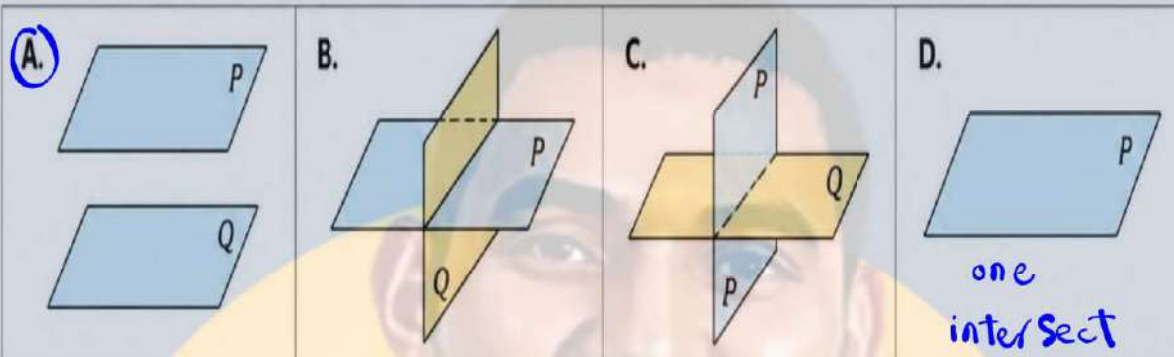
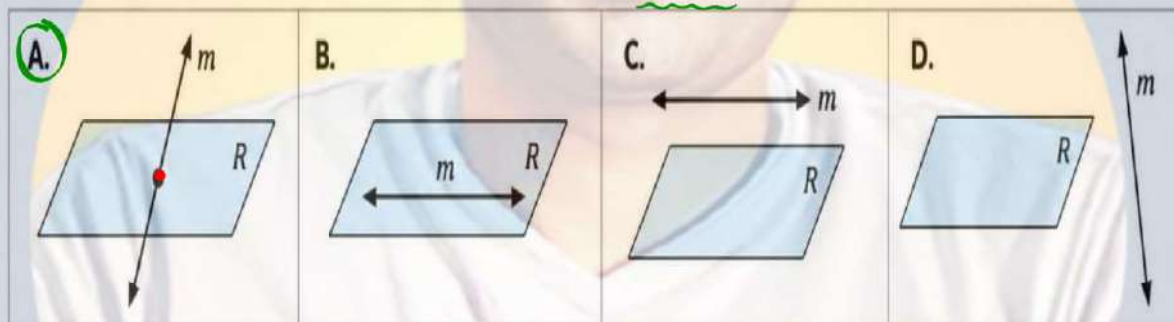
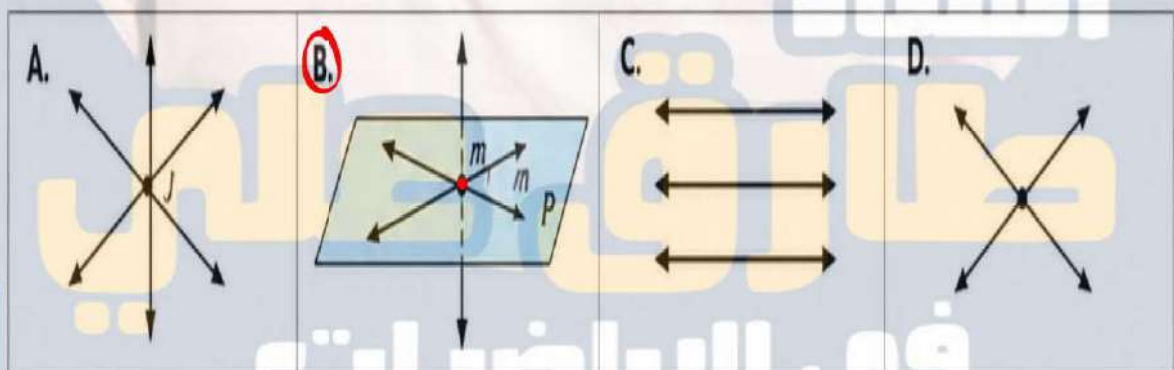
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21. Which figure shows two planes that do not intersect?

22. Which figure shows line m intersecting plane R at exactly one point?23. Which figure shows three lines intersecting at point J , but not all lying in the same plane?

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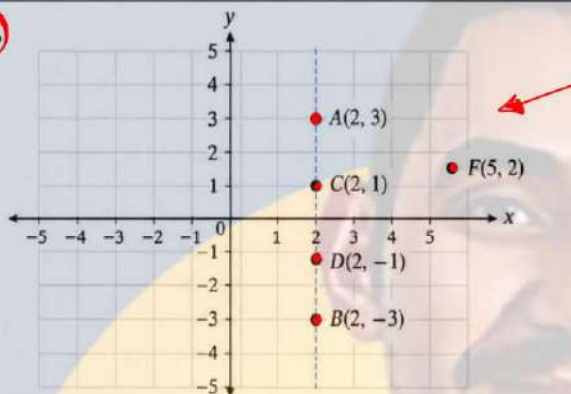


24. Points $A(2, 3)$, $B(2, -3)$, C , and D are collinear, but A , B , C , D , and F are not.

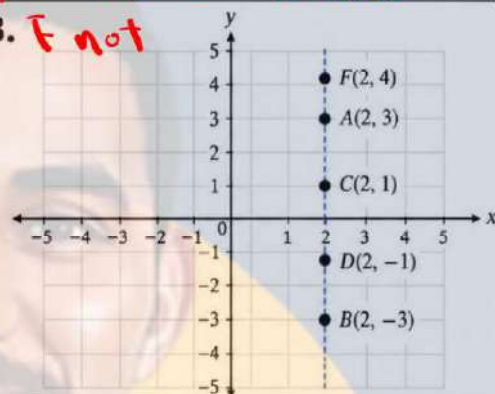
Which graph shows this relationship?

A, B, C, D on same line

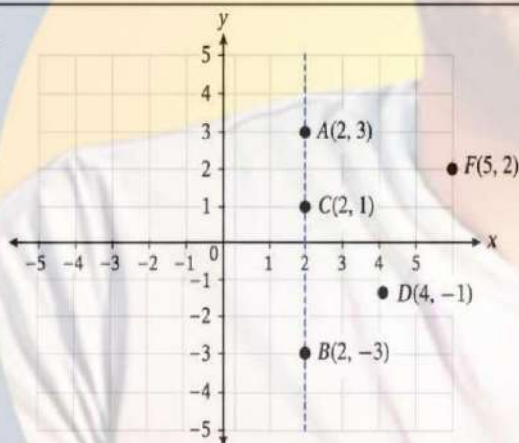
A.



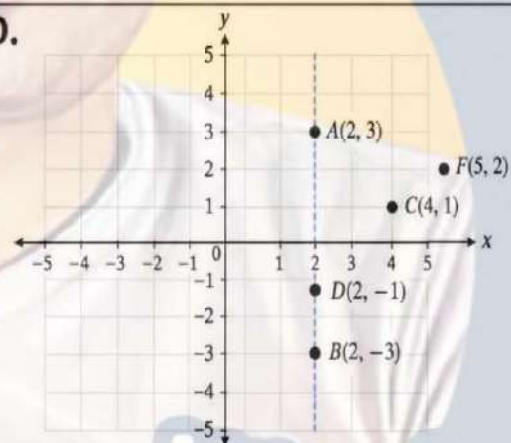
B. *F not*



C.



D.



Q14-MCQ 10.2

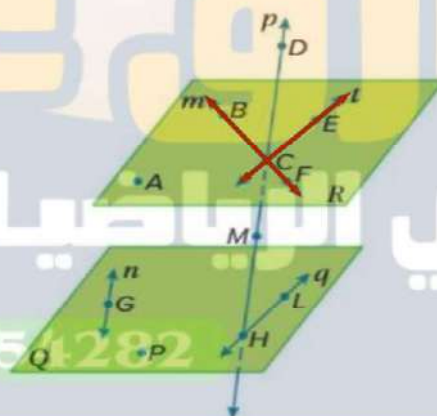
4. Name the intersection of lines m and t .

A. point B

B. point E

☒ C. point C

D. point F



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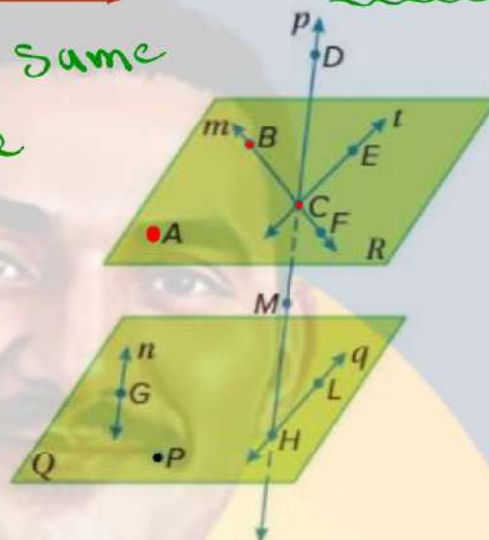
عام



5. Name a point that is not coplanar with points $A, B,$ and C .

- A. point E
 B. point F
☒ C. point D, P
 D. point R

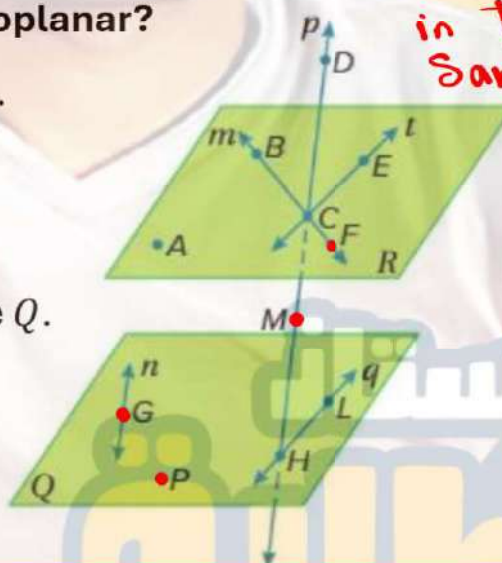
not is same
plane



6. Are points $F, M, G,$ and P coplanar?

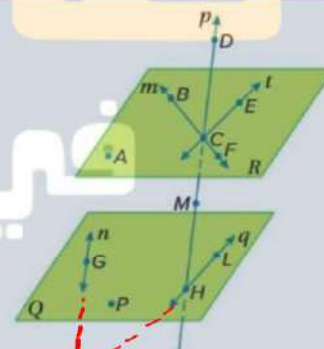
- A. Yes, they are all in plane Q .
 B. Yes, they are all on line p .
☒ C. No, F is in plane R ,
 while $G,$ and P are in plane Q .
 D. No, G is in plane R .

in the
same plane



7. Does line n intersect line q ?

- A. No, because line n and line q are parallel.
 B. Yes, because line n and line q intersect at point G .
☒ C. Yes, because line n and line q intersect when extended.
 D. No, because line n and line q are in different planes.



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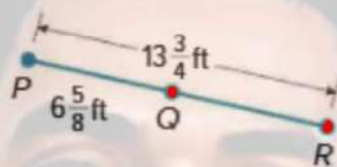
**EX.2****Q15-MCQ 10.3**What is the length of $\overline{QR}$?

A. $6\frac{5}{8}$ ft

B. $7\frac{1}{8}$ ft

C. $20\frac{3}{8}$ ft

D. $13\frac{3}{4}$ ft

Small $\rightarrow (-)$ Big $\rightarrow (+)$ shift $\frac{\square}{\square}$

$$QR = 13\frac{3}{4} - 6\frac{5}{8}$$

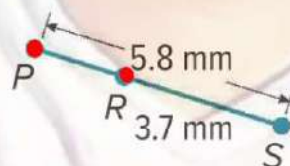
shift $15 \rightarrow 10$ What is the length of $\overline{PR}$?

A. 2.1 mm

B. 3.7 mm

C. 5.8 mm

D. 9.5 mm

1. $\overline{PR}$ Small $\rightarrow (-)$

$$5.8 - 3.7$$

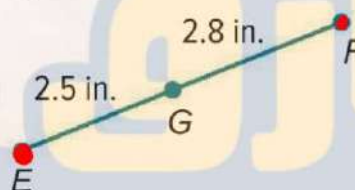
What is the length of $\overline{EF}$?

A. 2.8 in.

B. 5.3 in.

C. 0.3 in.

D. 4.7 in.

2. $\overline{EF}$ Big $\rightarrow (+)$

$$2.8 + 2.5$$



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What is the length of $\overline{JL}$?

$$0.75 + 0.35$$

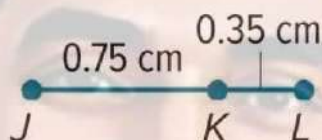
A. 0.35 cm

3. $\overline{JL}$

B. 0.40 cm

C. 1.10 cm

D. 0.75 cm

What is the length of $\overline{HJ}$?

$$12.2 - 3.1$$

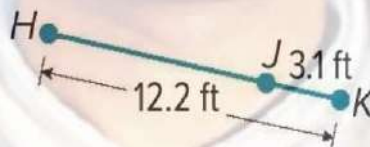
A. 9.1 ft

4. $\overline{HJ}$

B. 15.3 ft

C. 3.1 ft

D. 12.2 ft

What is the length of $\overline{AC}$?

A. 1.2 m

5. $\overline{AC}$

B. 0.4 m

C. 2.0 m

D. 1.6 m

Big $\rightarrow (+)$

$$0.4 + 1.6 = 2.0$$



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What is the length of $\overline{SV}$?

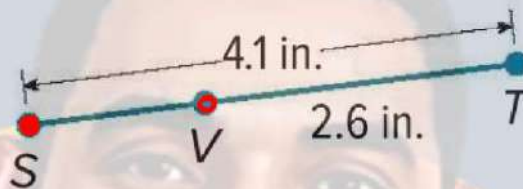
A. 2.6 in.

6. $\overline{SV}$

✓ B. 1.5 in.

C. 6.7 in.

D. 4.1 in.

What is the length of $\overline{NQ}$?

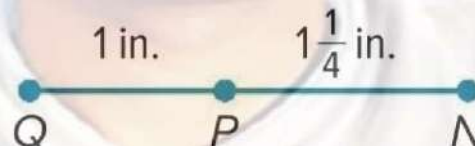
A. 4.6 cm

7. $\overline{NQ}$

B. 9.2 cm

✓ C. 2.95 cm

D. 6.9 cm

What is the length of $\overline{AC}$?

A. 1.2 m

8. $\overline{AC}$

✓ B. 10.1 m

C. 2.0 m

D. 1.6 m



AC → Big → (+)

4.9 + 5.2 = 10.1

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9. $\overline{GH}$ Small $\rightarrow (-)$

$$15 - 9.7 = 5.3$$

A. 2.8

☒ B. 5.3

C. 0.3

D. 4.7

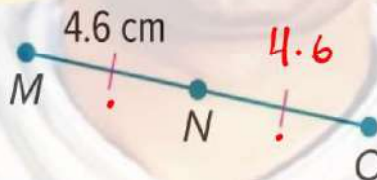
Q16-MCQ 10.3What is the length of $\overline{MO}$?

A. 4.6 cm

28. $\overline{MO}$ ☒ B. 9.2 cm

C. 2.3 cm

D. 6.9 cm



$$MO = 4.6 + 4.6$$

What is the length of $\overline{WY}$?

A. 8.8 mm

29. $\overline{WY}$

B. 17.6 mm

☒ C. 4.4 mm

D. 13.2 mm



1 — 2 parts — 1

$$WY = XY = \frac{8.8}{2} = 4.4$$

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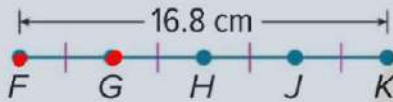
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30. $\overline{FG}$ 

$$* \frac{16.8}{4} = 4.2$$

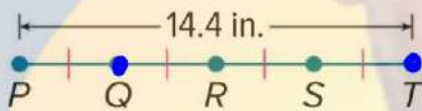
$$\overline{FG} = 4.2$$

A. 4.2 cm

B. 8.4 cm

C. 16.8 cm

D. 5.6 cm

31. $\overline{QT}$ 

$$* \frac{14.4}{4} = 3.6$$

$$3.6 \times 3$$

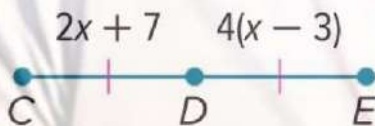
$$1 \times 3 = 3$$

A. 7.2 in.

B. 14.4 in.

C. 3.6 in.

D. 10.8 in.

32. $\overline{DE}$ 

$$* 2x + 7 = 4(x - 3)$$

shift $\rightarrow$ solve
 $\rightarrow =$

$$|x = 9.5|$$

A. 22

B. 26

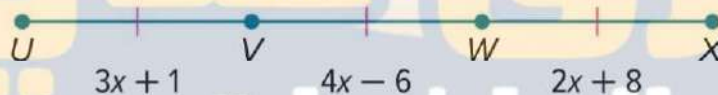
C. 30

D. 34

$$* DE = 4(9.5 - 3) = 26$$

33. $\overline{UX}$

3 parts



$$* 3x + 1 = 4x - 6 \quad \text{shift} \quad |x = 7|$$

$$UX = 3(7) + 1 = 22$$

A. 44

B. 54

C. 66

D. 72

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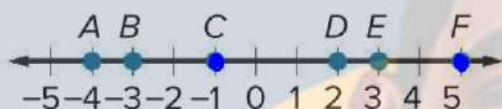
عام



Q17-MCQ 10.4

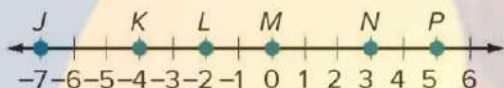
Example 1 Find Distance on a Number Line

Use the number line.



Find CF. $= |x_2 - x_1| = |5 - -1| = 6$

Use the number line to find each measure.



1. JL

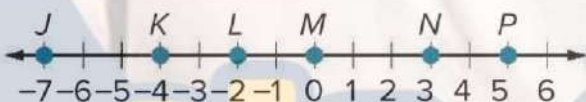
- A.3 $| -7 - -2 |$
 B.5 $| -5 |$
 C.2
 D.9 $= 5$

2. JK

- A.3 $| -7 - -4 |$
 B.5 $| -3 |$
 C.2
 D.9 $= 3$

3. KP

- A.3 $| -4 - -6 |$
 B.5 $= | -9 |$
 C.2
 D.9 $= 9$



4. NP

- A.3 $| 5 - 3 |$
 B.5
 C.2 $= 12$
 D.9 $= 2$

5. JP

- A.3 $| -7 - -5 |$
 B.5
 C.12 $= | -12 |$
 D.9 $= 12$

6. LN

- A.3 $| -2 - 3 |$
 B.5 $| -5 |$
 C.2
 D.9 $= 5$

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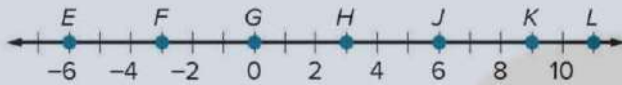
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7. JK

- ☒ A. 3
 B. 5
 C. 2
 D. 9
- $|9 - 6|$
 $= |3|$
 $= 3$

8. LK

- A. 3
 B. 5
☒ C. 2
 D. 9
- $|12 - 9|$
 $= |3|$
 $= 3$

9. FG

- ☒ A. 3
 B. 6
 C. 2
 D. 9
- $|1 - 3 - 0|$
 $= |-3|$
 $= 3$

EX.3**Q18-MCQ 10.4**Find the distance between $J(4, 3)$ and $K(-3, -7)$.

- ☒ A. $\sqrt{149}$
 B. $\sqrt{51}$
 C. 149
 D. $\sqrt{149} - 10$

$$\begin{aligned}
 d &= \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2} \\
 &= \sqrt{(4 - (-3))^2 + (3 - (-7))^2}
 \end{aligned}$$

31. Find the distance between $M(-4, 9)$ and $N(-5, 3)$.

Round to the nearest tenth if necessary.

- ☒ A. 6.1
 B. $\sqrt{35}$
 C. 7
 D. $\sqrt{37}$

$$\begin{aligned}
 d &= \sqrt{(-4 - (-5))^2 + (9 - 3)^2} \\
 &= \sqrt{1 + 36} \\
 &= \sqrt{37} \approx 6.1
 \end{aligned}$$

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32. Find the distance between $C(2, 4)$ and $D(5, 7)$.

Round to the nearest tenth if necessary.

A. $\sqrt{18}$

B. 5.2

✓ C. 4.2

D. 18

$$d = \sqrt{(2-5)^2 + (4-7)^2} = \sqrt{18} \\ \approx 4.2$$

33. Find the distance between $A(5, 1)$ and $B(3, 6)$.

Round to the nearest tenth if necessary.

A. $\sqrt{21}$

✓ B. 5.4

C. $\sqrt{29}$

D. 29

$$d = \sqrt{(3-5)^2 + (6-1)^2} \\ = \sqrt{29} \\ \approx 5.4$$

34. Find the distance between $V(4, 4)$ and $X(5, 8)$.

Round to the nearest tenth if necessary.

A. $\sqrt{17}$

✓ B. 4.1

C. $\sqrt{9}$

D. 17

$$d = \sqrt{(4-5)^2 + (4-8)^2} \\ = \sqrt{17} \\ \approx 4.1$$

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35. Find the distance between $S(6, 4)$ and $T(3, 2)$.

Round to the nearest tenth if necessary.

✓ A. 3.6

B. $\sqrt{10}$

C. 5

D. 10

$$d = \sqrt{(6-3)^2 + (4-2)^2}$$

$$= \sqrt{13}$$

$$\approx 3.6$$

36. Find the distance between $M(-1, 8)$ and $N(-3, 3)$.

Round to the nearest tenth if necessary.

A. $\sqrt{29}$

✓ B. 5.4

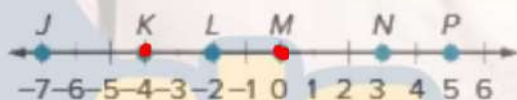
C. 29

D. $\sqrt{21}$

$$d = \sqrt{(-1+3)^2 + (8-3)^2}$$

$$= \sqrt{29} \approx 5.4$$

Q19-MCQ 10.7

1. Use the number line to find the midpoint of $\overline{KM}$.

A. -3

✓ B. -2

C. -1

D. 0

$$M = \frac{x_1 + x_2}{2}$$

$$M = \frac{-4 + 0}{2}$$

$$= -2$$

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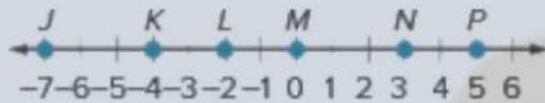
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Mr. Tarek Ali

سلسلة الطارق في الرياضيات منصة طارق أكاديمي

9

عام



2. Use the number line to find the midpoint of $\overline{JP}$.

- A. 1
B. 0
C. -1
D. -2

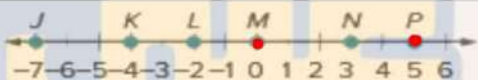
$$M = \frac{-7 + 5}{2} = -1$$



3. Use the number line to find the midpoint of $\overline{LN}$.

- A. 0.5
B. 0
C. 2
D. 3 - 1.5

$$M = \frac{-2 + 3}{2} = \frac{1}{2} = 0.5$$



4. Use the number line to find the midpoint of $\overline{MP}$.

- A. 2
B. 3
C. 2.5
D. 4

$$M = \frac{0 + 5}{2} = 2.5$$

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5. Use the number line to find the midpoint of $\overline{LP}$.

A. 1

✓ B. 1.5

C. 2

D. 3

$$M = \frac{-2 + 5}{2} = 1.5$$



6. Use the number line to find the midpoint of $\overline{JN}$.

A. -1

✓ B. -2

C. 0

D. 1

$$M = \frac{-7 + 3}{2} = -2$$

استاذ طارق علي
في الرياضيات



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Q20-MCQ 10.7

19. Find the coordinates of the midpoint of the segment with endpoints $(5, 11)$ and $(3, 1)$.

A. $(4, 5)$

☒ B. $(4, 6)$

C. $(8, 12)$

D. $(2, 5)$

$$M = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

$$\left(\frac{5 + 3}{2}, \frac{11 + 1}{2} \right) = (4, 6)$$

20. Find the coordinates of the midpoint of the segment with endpoints $(7, -5)$ and $(3, 3)$.

☒ A. $(5, -1)$

B. $(10, -2)$

C. $(4, -1)$

D. $(5, 1)$

$$M = \left(\frac{7 + 3}{2}, \frac{-5 + 3}{2} \right)$$

$$= (5, -1)$$

21. Find the coordinates of the midpoint of the segment with endpoints $(-8, -11)$ and $(2, 5)$.

☒ A. $(-3, -3)$

B. $(-3, -6)$

C. $(-5, -3)$

D. $(-6, -5)$

$$M = \left(\frac{-8 + 2}{2}, \frac{-11 + 5}{2} \right)$$

$$= (-3, -3)$$

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22. Find the coordinates of the midpoint of the segment with endpoints (7, 0) and (2, 4) .

A. (4.5, 2)

B. (5, 2)

C. (4, 1)

D. (9, 4)

$$M = \left(\frac{7+2}{2}, \frac{0+4}{2} \right) \\ = (4.5, 2)$$

23. Find the coordinates of the midpoint of the segment with endpoints (-5, 1) and (2, 6) .

A. (-1.5, 3.5)

B. (-3, 7)

C. (1, 3)

D. (-1.5, 2.5)

$$M = \left(\frac{-5+2}{2}, \frac{1+6}{2} \right) \\ = (-1.5, 3.5)$$

24. Find the coordinates of the midpoint of the segment with endpoints (-4, -7) and (12, -6) .

A. (4, -6.5)

B. (8, -13)

C. (4, -1)

D. (6, -6)

$$M = \left(\frac{-4+12}{2}, \frac{-7-6}{2} \right) \\ = (4, -6.5)$$

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Q21-MCQ 10.7

33. Point B is the midpoint of $\overline{AC}$. Find the coordinates of A if $C(-5, 4)$ and $B(-2, 5)$

A. (1, 6)

B. (-1, 5)

C. (2, 4)

D. (-3, 6)

$$(-2, 5) = \left(\frac{x-5}{2}, \frac{y+4}{2} \right)$$

$$* -2 = \frac{x-5}{2} \quad \text{دع!} \quad x = 1$$

$$* 5 = \frac{y+4}{2} \quad \text{دع!} \quad y = 6$$

34. Point B is the midpoint of $\overline{AC}$. Find the coordinates of C if $A(1, 7)$ and $B(-3, 1)$.

A. (-7, 5)

B. (-5, -7)

C. (-6, -5)

D. (-7, -5)

$$(-3, 1) = \left(\frac{x+1}{2}, \frac{y+7}{2} \right)$$

$$* -3 = \frac{x+1}{2} \rightarrow x = -7$$

$$* 1 = \frac{y+7}{2} \rightarrow y = -5$$

$$(x, y) = (-7, -5)$$



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35. Point B is the midpoint of $\overline{AC}$. Find the coordinates of C if $A(-4, 2)$ and $B(6, -1)$.

A. $(-16, -4)$ B. $(8, -2)$ C. $(16, -4)$ D. $(14, -6)$

$$(6, -1) = \left(\frac{x - 4}{2}, \frac{y + 2}{2} \right)$$

$$* 6 = \frac{x - 4}{2} \rightarrow x = 16$$

$$* -1 = \frac{y + 2}{2} \rightarrow y = -4$$

36. Point B is the midpoint of $\overline{AC}$. Find the coordinates of A if $C(-6, -2)$ and $B(-3, -5)$.

A. $(0, -10)$ B. $(0, -8)$ C. $(-9, -8)$ D. $(-6, -7)$

$$(-3, -5) = \left(\frac{x - 6}{2}, \frac{y - 2}{2} \right)$$

$$* -3 = \frac{x - 6}{2} \rightarrow x = 0$$

$$* -5 = \frac{y - 2}{2} \rightarrow y = -8$$



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**EX.2****Q22-MCQ 7.4**

Use elimination to solve the system of equations.

$$3x + 4y = -22$$

$$-2x + 3y = -8$$

What is the solution to the system?

A. $(2, -4)$

B. $(-2, 4)$

~~C. $(-2, -4)$~~

D. $(2, 4)$

* es mode $\rightarrow 5 \rightarrow 1$

* ex mode $\rightarrow$ equation $\rightarrow 1$
AR $\rightarrow 2$

x, y in the Same Side.

7) Use elimination to solve the system of equations.

$$3x + 4y = 29$$

$$6x + 5y = 43$$

What is the solution to the system?

A. $(-3, -5)$

B. $(3, -5)$

C. $(-3, 5)$

~~D. $(3, 5)$~~

8) Use elimination to solve the system of equations.

$$8x + 3y = 4$$

$$-7x + 5y = -34$$

What is the solution to the system?

A. $(-2, 4)$

~~B. $(2, -4)$~~

C. $(-2, -4)$

D. $(2, 4)$

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9) Use elimination to solve the system of equations.

$$8x + 3y = -7$$

$$7x + 2y = -3$$

What is the solution to the system?

A. $(-1, 5)$

☒ B. $(1, -5)$

C. $(-1, -5)$

D. $(1, 5)$

10) Use elimination to solve the system of equations.

$$4x + 7y = -80$$

$$3x + 5y = -58$$

What is the solution to the system?

A. $(6, -8)$

B. $(-6, 8)$

☒ C. $(-6, -8)$

D. $(6, 8)$

11) Use elimination to solve the system of equations.

$$12x - 3y = -3$$

$$6x + y = 1$$

What is the solution to the system?

A. $(0, -1)$

B. $(1, 0)$

C. $(-1, 0)$

☒ D. $(0, 1)$

12) Use elimination to solve the system of equations.

$$-4x + 2y = 0$$

$$10x + 3y = 8$$

What is the solution to the system?

A. $\left(\frac{1}{2}, -1\right)$

B. $\left(-\frac{1}{2}, 1\right)$

☒ C. $\left(\frac{1}{2}, 1\right)$

D. $\left(-\frac{1}{2}, -1\right)$

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Q23-MCQ 7.4 (مكرر ٩١٥)

Use elimination to solve the system of equations.

$$\begin{aligned} 3x - 3y &= -6 \\ -5x + 6y &= 12 \end{aligned}$$

What is the solution to the system?

A. $(0, -2)$

☒ B. $(0, 2)$

C. $(2, 0)$

D. $(-2, 0)$

es AR
mode → equation → 1 → 2
es → mode → 2 → 1

Use elimination to solve each system of equations.

$$\begin{aligned} 1. \quad x + y &= 2 \\ -3x + 4y &= 15 \end{aligned}$$

A. $(-2, 6)$

☒ B. $(-1, 3)$

C. No Solution

D. infinitely many solution

$$\begin{aligned} 2. \quad x - y &= -8 \\ 7x + 5y &= 16 \end{aligned}$$

☒ A. $(-2, 6)$

B. $(-1, 3)$

C. No Solution

D. infinitely many solution

$$\begin{aligned} 3. \quad x + 5y &= 17 \\ -4x + 3y &= 24 \end{aligned}$$

A. $(-2, 6)$

☒ B. $(-3, 4)$

C. No Solution

D. infinitely many solution

$$\begin{aligned} 4. \quad 6x + y &= -39 \\ 3x + 2y &= -15 \end{aligned}$$

☒ A. $(-7, 3)$

B. $(-3, 4)$

C. No Solution

D. infinitely many solution



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5. $2x + 5y = 11$

$4x + 3y = 1$

A. (-7,3)

✓ B. (-2,3)

C. No Solution

D. infinitely many solution

Q24-MCQ 10.3**Example 3** Write and Solve Equations to Find MeasurementsFind the value of x and BC if B is between A and C , $AC = 4x - 12$, $AB = x$, and $BC = 2x + 3$.

A. 27 BC=....

B. 30

✓ C. 33

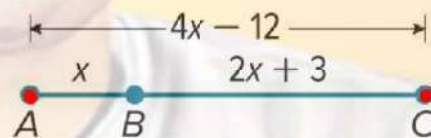
D. 36

Big = sum of smaller

$$4x - 12 = x + 2x + 3$$

$$x = 15$$

$$* BC = 2(15) + 3 = 33$$

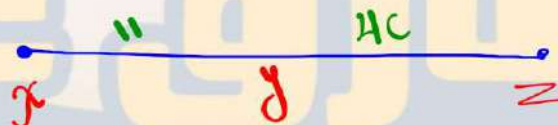
Shift
Solve
=10. If Y is between X and Z , $XY = 11$, $YZ = 4c$, and $XZ = 83$, what is the value of YZ ?

A. 68

✓ B. 72

C. 76

D. 80



$$83 = 11 + 4c \quad \text{Shift} \rightarrow \text{solve} \rightarrow =$$

$$c = 18$$

$$YZ = 4c = 4(18) = 72$$

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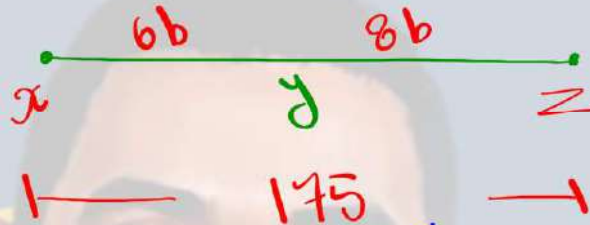
11. If Y is between X and Z, $XY = 6b$, $YZ = 8b$, and $XZ = 175$, what is the value of YZ?

A. 75

✓ B. 100

C. 125

D. 150



$$175 = 6b + 8b$$

دعنا!

$$* b = 12.5$$

$$* YZ = 8b = 8(12.5) = 100$$

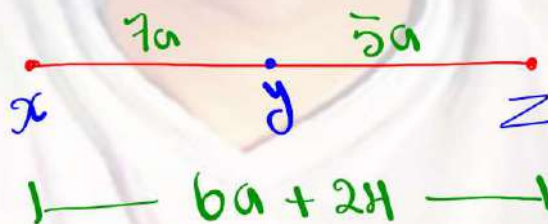
12. If Y is between X and Z, $XY = 7a$, $YZ = 5a$, and $XZ = 6a + 24$, what is the value of YZ?

A. 10

B. 15

✓ C. 20

D. 25



$$6a + 24 = 7a + 5a \quad \text{دعنا!} \quad a = 4$$

$$* YZ = 5a = 5(4) = 20$$

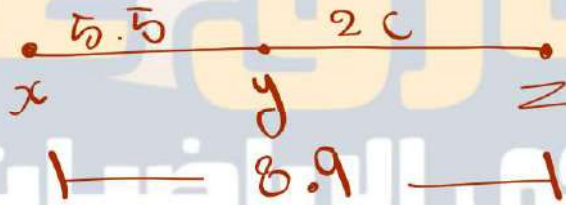
13. If Y is between X and Z, $XY = 5.5$, $YZ = 2c$, and $XZ = 8.9$, what is the value of YZ?

✓ A. 3.4

B. 1.7

C. 5.5

D. 8.9



$$* 8.9 = 5.5 + 2c \quad \rightarrow \quad c = 1.7$$

$$* YZ = 2c = 2(1.7) = 3.4$$

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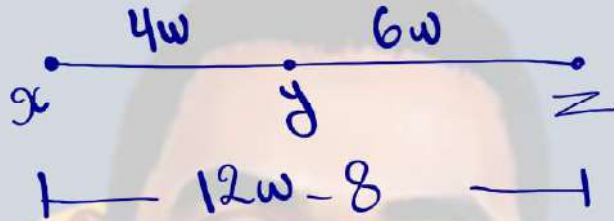
14. If Y is between X and Z, $XY = 4w$, $YZ = 6w$, and $XZ = 12w - 8$, what is the value of YZ?

A. 18

✓ B. 24

C. 30

D. 36

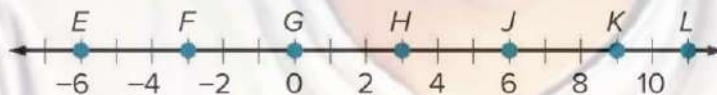


$$* 12w - 8 = 4w + 6w \rightarrow w = 4$$

$$* YZ = 6w = 6(4) = 24$$

Q25-MCQ 10.4

Use the number line to find each measure.



7. JK

8. LK

A. 5

B. 7

✓ C. 3

D. -3

$$|J - K|$$

$$|6 - 9|$$

$$|6 - 9| = 3$$

$$d = |x_2 - x_1|$$

$$|K - L| = |9 - 11|$$

$$= |-2|$$

$$= 2$$

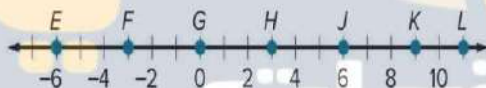
✓ A. 2

B. 6

C. 3

D. -3

Use the number line to find each measure.



$$|F - G| = |-3 - 0|$$

$$= |-3| = 3$$

9. FG

A. 2

B. 6

✓ C. 3

D. -3

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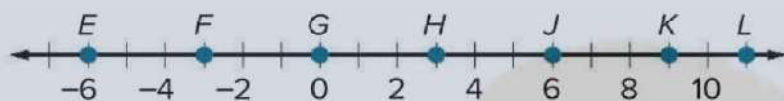
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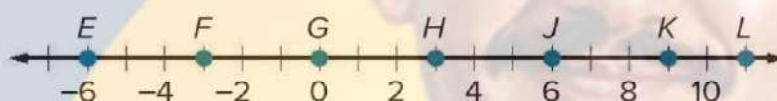
عام



10. JG

- A. 2
☒ B. 6
 C. 3
 D. -3

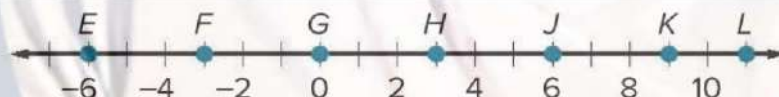
$$|J - G| = |6 - 0| = |6| = 6$$



11. EH

- A. 2
 B. 6
☒ C. 9
 D. -9

$$|E - H| = |-6 - 3| = |-9| = 9$$



12. LF

- ☒ A. 14
 B. 6
 C. 9
 D. -9

$$|L - F| = |11 - -3| = |14| = 14$$



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منصة طارق أكاديمي للرياضيات

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IN

Math

MATH

خاص بالمنصة

خاص بجميع الجروبات و القنوات

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Mathematical formulas and diagrams visible on the chalkboard background include:

- $[a + b]$
- $\pi = 3.14$
- $A = \frac{ab + c}{d}$
- $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
- $a^2 + b^2 = c^2$, $c = \sqrt{a^2 + b^2}$
- $c^2 + a^2 = b^2$, $c^2 - b^2 = a^2$
- $a^2 = 2a$
- $f(a + b) = c$
- $(x + y)^2 - (x - y)^2 + 2c = 1$
- $\frac{a}{c} = \frac{HB}{a}$
- $Me =$
- 90°