

## تجميعية 2 القسم الالكتروني وفق الهيكل الوزاري منهج ريفيل



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المزيد من مادة  
رياضيات:

إعداد: Dsouza Daryl Justin

### التواصل الاجتماعي بحسب الصف التاسع المتقدم



صفحة المناهج  
الإماراتية على  
فيسبوك

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

### المزيد من الملفات بحسب الصف التاسع المتقدم والمادة رياضيات في الفصل الثاني

حل تجميعية 1 القسم الالكتروني وفق الهيكل الوزاري منهج ريفيل

1

تجميعية 1 القسم الالكتروني وفق الهيكل الوزاري منهج ريفيل

2

حل بالخطوات أسئلة امتحان نهائي سابق منهج ريفيل القسم الورقي للعام 2023-2024

3

إجابات تدريبات وفق الهيكل الوزاري لامتحان نهاية الفصل الثاني منهج ريفيل

4

حل تجميعية أسئلة مراجعة وفق الهيكل الوزاري منهج ريفيل

5



9Adv T2

Practice EoT2 Exam 2

End of Term 2



# ***G9Adv EoT2 Practice Exam 2***

## ***Part I Electronic (MCQ)***



9Adv Part 1 Multiple Choice | MCQ | EoT2 | System of equations, planes & inequalities | Q1 - Q15 |

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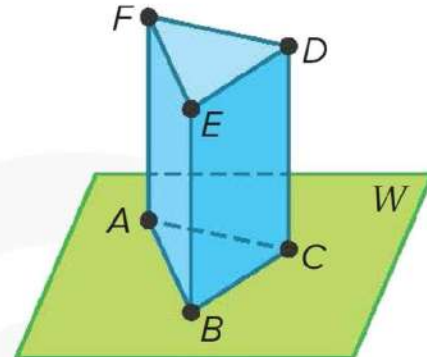


Let's Start!

**Question 1: Points, Lines, and Planes.**

1) How many planes contain the points E.

- A) 1
- B) 2
- C) 3
- D) 4



2) If a pencil represents a line, and the surface of a table represents a plane, what geometric term is represented by the intersection of the pencil and the table's surface?

- A) Point
- B) Line
- C) Plane
- D) Coplanar

**Question 2: Graphing Systems of Equations.**

Determine the number of solutions the system has. Then state whether the system of equations is consistent or inconsistent and if it is independent or dependent.

1)  $y = \frac{1}{2}x$

$$y = x + 2$$

- A) Consistent; independent; 1 solution
- B) Consistent; dependent; 2 solutions
- C) Consistent; dependent; infinitely many solutions
- D) Inconsistent

2)  $-4x + 2y = 5$

$$-12x + 6y = 15$$

- A) Consistent; independent; 1 solution
- B) Consistent; dependent; 2 solutions
- C) Consistent; dependent; infinitely many solutions
- D) Inconsistent

**Question 3: Elimination Using Addition and Subtraction.**

Use elimination to solve each equation.

1)  $y = \frac{1}{2}x$

$$y = x + 2$$

A) (0, 1)

B) (-4, -2)

C) Infinite solutions

D) No solution

2)  $-4x + 2y = 5$

$$-12 + 6y = 15$$

A) (7, 3)

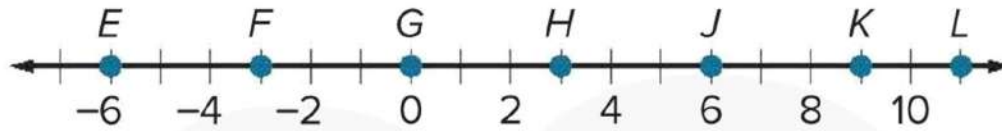
B) (-1, 2)

C) Infinite solutions

D) No solution

**Question 4: Distance.**

Use the number line to find each measure.



1) FH

- A) 6 units
- B) 9 units
- C) 14 units
- D) 17 units

2) EL

- A) 6 units
- B) 9 units
- C) 14 units
- D) 17 units

**Question 5: Elimination Using Multiplication.**

Use elimination to solve each equation.

1)  $x + 4y = 11$   
 $x - 6y = 11$

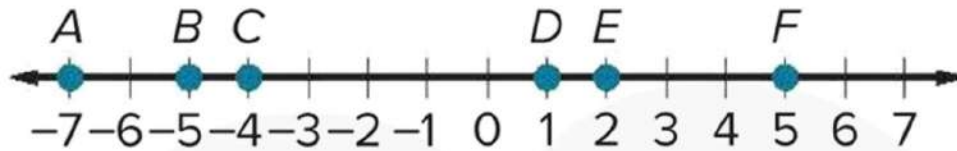
- A) (0, 3)
- B) (11, 0)
- C) Infinite solutions
- D) No solution

2)  $2x + 3y = 10$   
 $4x + 6y = 12$

- A) (7, 3)
- B) (-1, 2)
- C) Infinite solutions
- D) No solution

**Question 6: Locating Points on a Number Line.**

Refer to the number line.

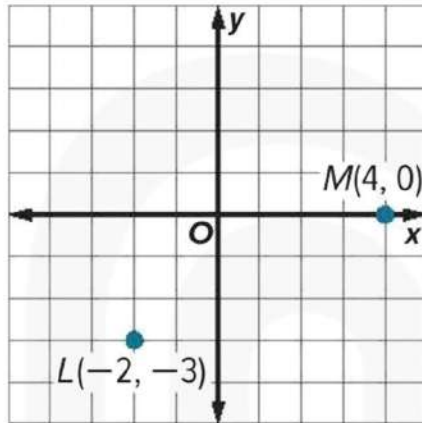


- 1) Find the coordinate of point X such that the ratio of FX to XD is 5:3.
- A) 0.5  
B) 1  
C) 2.5  
D) 4
- 2) Find the coordinate of point Y that is  $\frac{2}{3}$  of the distance from B to D.
- A) -0.5  
B) -1  
C) -2.5  
D) -4

**Question 7: Distance.**

Find the distance between each pair of points.

1)



A) 1.3 units

B) 6.7 units

C) 9.4 units

D) 12.2 units

2) A(-3, 8), B(-5, 1)

A) 1.25 units

B) 2 units

C) 5.4 units

D) 7.3 units

**Question 8: Midpoints and Bisectors.**

Find the coordinates of the missing endpoint if P is the midpoint of  $\overline{AB}$ .

1) A(3, 2), P(6, 4)

A) (8,5)

B) (6,6)

C) (7,5)

D) (9, 6)

2) A(-4, 3), P(1, 6)

A) (6, 9)

B) (6, -9)

C) (-9, 0)

D) (4, 3)

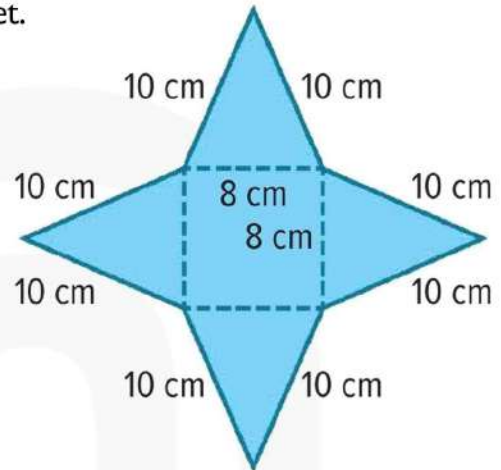


**Question 9: Two-Dimensional Representations of Three-Dimensional Figures.**

1) Identify the solid that is represented by the net.

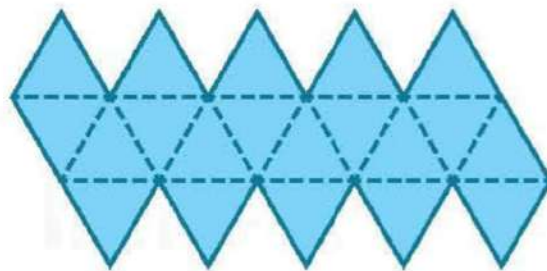
Then find its surface area.

- A) Square pyramid  $64 + 64\sqrt{21} \text{ cm}^2$
- B) Triangular prism  $160 \text{ cm}^2$
- C) Square pyramid;  $64 + 32\sqrt{21} \text{ cm}^2$
- D) Triangular prism;  $64 \text{ cm}^2$



2) Identify the Platonic solid that is represented by the net.

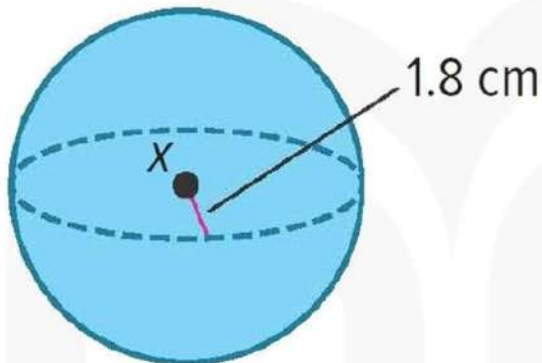
- A) Dodecahedron
- B) Pentagonal prism
- C) Dodecahedron
- D) Icosahedron



**Question 10: Three-Dimensional Figures.**

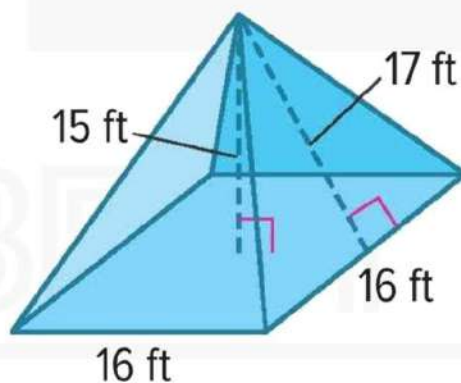
Find the surface area and volume of each solid. Round each measure to the nearest tenth, if necessary.

1)



- A)  $26.9 \text{ cm}^2$ ;  $7.7 \text{ cm}^3$
- B)  $104 \text{ cm}^2$ ;  $60 \text{ cm}^3$
- C)  $40.7 \text{ cm}^2$ ;  $24.4 \text{ cm}^3$
- D)  $282.7 \text{ cm}^2$ ;  $314.2 \text{ cm}^3$

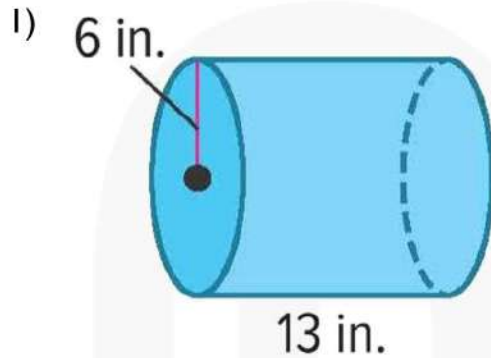
2)



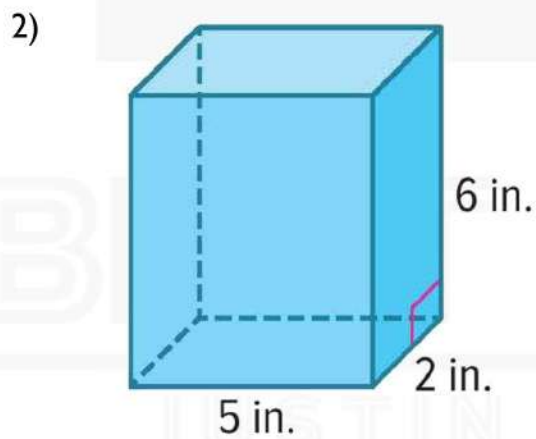
- A)  $26.9 \text{ ft}^2$ ;  $7.7 \text{ ft}^3$
- B)  $104 \text{ ft}^2$ ;  $60 \text{ ft}^3$
- C)  $800 \text{ ft}^2$ ;  $1280 \text{ ft}^3$
- D)  $282.7 \text{ ft}^2$ ;  $314.2 \text{ ft}^3$

**Question 11: Three-Dimensional Figures.**

Find the surface area and volume of each solid. Round each measure to the nearest tenth, if necessary.



- A)  $716.3 \text{ in}^2$ ;  $1470.3 \text{ in}^3$
- B)  $104 \text{ in}^2$ ;  $60 \text{ in}^3$
- C)  $40.7 \text{ in}^2$ ;  $24.4 \text{ in}^3$
- D)  $282.7 \text{ in}^2$ ;  $314.2 \text{ in}^3$

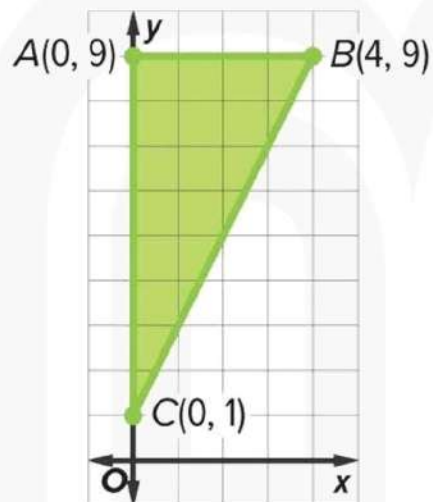


- A)  $716.3 \text{ in}^2$ ;  $1470.3 \text{ in}^3$
- B)  $104 \text{ in}^2$ ;  $60 \text{ in}^3$
- C)  $800 \text{ in}^2$ ;  $1280 \text{ in}^3$
- D)  $282.7 \text{ in}^2$ ;  $314.2 \text{ in}^3$

**Question 12: Two-Dimensional Figures.**

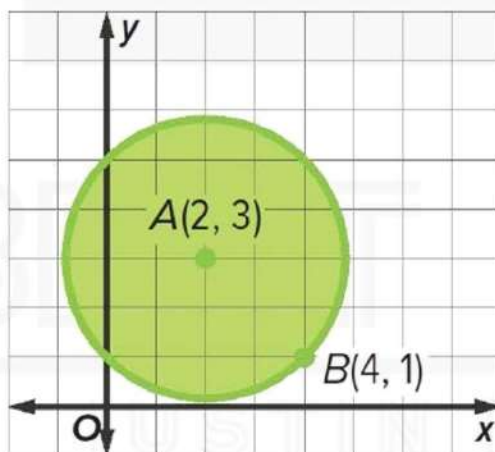
Find the perimeter or circumference and area of each figure if each unit on the graph measures 1 centimeter. Round answers to the nearest tenth, if necessary.

1)



- A) 20.9 cm;  $16 \text{ cm}^2$
- B) 22.4 cm;  $30 \text{ cm}^2$
- C) 17.8 cm;  $25.1 \text{ cm}^2$
- D) 14.0 cm;  $15.7 \text{ cm}^2$

2)



- A) 20.9 cm;  $16 \text{ cm}^2$
- B) 22.4 cm;  $30 \text{ cm}^2$
- C) 17.8 cm;  $25.1 \text{ cm}^2$
- D) 14.0 cm;  $15.7 \text{ cm}^2$

**Question 13: Substitution.**

1) SCAVENGER HUNT: Tenesha is participating in a scavenger hunt. She has two lists of items to find. Items on list A are worth 5 points, and items on list B are worth 15 points. She has found a total of 18 items and has earned 150 points. Write a system of equations to represent the information and use substitution to determine how many items from each list Tenesha has found.

a) Write the system of equations

A)  $a + b = 5$ ;  $0.7a + 0.2b = 3.25$

B)  $a + b = 167$ ;  $2a + 6b = 742$

C)  $a + b = 18$ ;  $5a + 15b = 150$

D)  $a + b = 6$ ;  $1.5a + 2.5b = 10$

b) Solve the system of equations

A) 5 from list A, 1 from list B

B) 6 from list A, 3 from list B

C) 12 from list A, 6 from list B

D) 10 from list A, 15 from list B

**Question 13: Substitution (Continued).**

2) MONEY: Harvey has some \$1 bills and some \$5 bills. In all, he has 6 bills worth \$22. Let  $x$  be the number of \$1 bills, and let  $y$  be the number of \$5 bills. Write a system of equations to represent the information, and use substitution to determine how many bills of each denomination Harvey has.

a) Write the system of equations

A)  $x + y = 5$ ;  $0.7x + 0.2y = 3.25$

B)  $x + y = 167$ ;  $2x + 6y = 742$

C)  $x + y = 18$ ;  $5x + 15y = 150$

D)  $x + y = 6$ ;  $x + 5y = 22$

b) Solve the system of equations

A) 2 of \$5 bills of water, 2 of \$1 bills

B) 4 of \$5 bills of water, 2 of \$1 bills

C) 6 of \$5 bills of water, 4 of \$1 bills

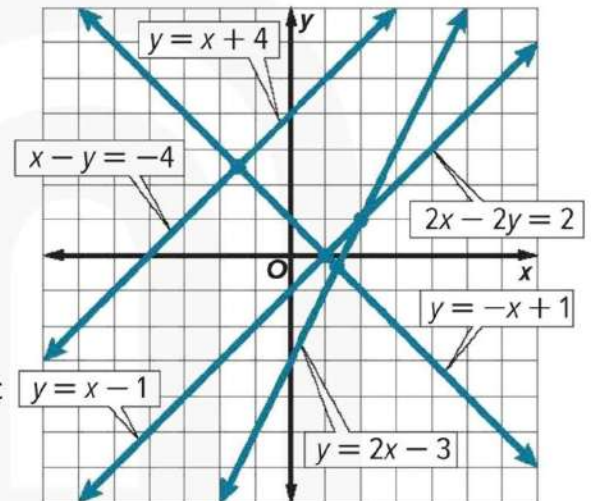
D) 3 of \$5 bills of water, 8 of \$1 bills

**Question 14: Graphing Systems of Equations.**

Use the graph to determine the number of solutions the system has. Then state whether the system of equations is consistent or inconsistent and if it is independent or dependent.

1)  $x - y = -4$   
 $y = x + 4$

- A) 1 solution; consistent; independent
- B) 2 solutions; consistent; dependent
- C) Infinite solutions; consistent; dependent
- D) No solution; inconsistent



2)  $y = 2x - 3$   
 $2x - 2y = 2$

- A) 1 solution; consistent; independent
- B) 2 solutions; consistent; dependent
- C) Infinite solutions; consistent; dependent
- D) No solution; inconsistent

**Question 15: Angle Relationships.**

1)  $\angle E$  and  $\angle F$  are complementary. The measure of  $\angle E$  is  $54^\circ$  more than the measure of  $\angle F$ . Find the measure of each angle.

- A)  $\angle E = 45^\circ$ ;  $\angle F = 135^\circ$
- B)  $\angle E = 32^\circ$ ;  $\angle F = 58^\circ$
- C)  $\angle E = 18^\circ$ ;  $\angle F = 72^\circ$
- D)  $\angle E = 128^\circ$ ;  $\angle F = 52^\circ$

2) The measure of an angle's supplement is  $76^\circ$  less than the measure of the angle. Find the measures of the angle and its supplement.

- A)  $128^\circ$ ;  $52^\circ$
- B)  $45^\circ$ ;  $135^\circ$
- C)  $72.5^\circ$ ;  $107.5^\circ$
- D)  $18^\circ$ ;  $72^\circ$



9Adv T2

Practice EoT2 Exam 2

End of Term 2



# ***G9Adv EoT2 Practice Exam 2 Part 2 Writing (FRQ)***



9Adv Part 2 Writing | FRQ | EoT2 | Lines, volume, system of equations & angle measures | Q16 - Q21 |

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<https://youtu.be/W9XYkmtqKn4>



Let's Start!

**Question 16: Line Segments.**

Find the value of the variable and YZ if Y is between X and Z.

$$XY = 4w, YZ = 6w, XZ = 12w - 8$$

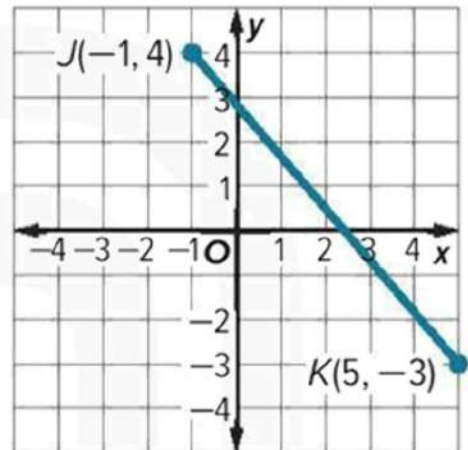


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**Question 17: Locating Points on a Coordinate Plane.**

Find the coordinates of point X on the coordinate plane for each situation.

Point X on  $\overline{JK}$  is  $\frac{1}{3}$  of the distance from J to K.

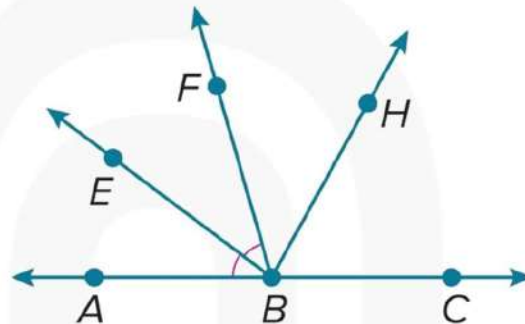


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**Question 18: Angles and Congruence.**

In the figure,  $\overrightarrow{BA}$  and  $\overrightarrow{BC}$  are opposite rays.  $\overrightarrow{BF}$  bisect  $\angle EBC$  and  $\overrightarrow{BE}$  bisects  $\angle ABF$ .

If  $m\angle EBH = (6x + 12)^\circ$  and  $m\angle HBC = (8x - 10)^\circ$  find  $m\angle EBH$ .



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**Question 19: Substitution.**

Use substitution to solve the system of equations.

$$y = -4x + 11$$

$$3x + y = 9$$



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**Question 20: Systems of Inequalities.**

Solve the system of inequalities by graphing.

$$y \geq 3x - 5$$

$$3x - y > -4$$



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**Question 21: Angle Relationships.**

Find the measures of two complementary angles if the measure of the larger angle is five more than four times the measure of the smaller angle.



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