

## حل تجميعية 3 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

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9Adv T2

Answer Keys Exam 3

End of Term 2



# ***G9Adv EoT2 Practice Exam 3***

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



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

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<https://youtu.be/XAqD7W6pI0w>

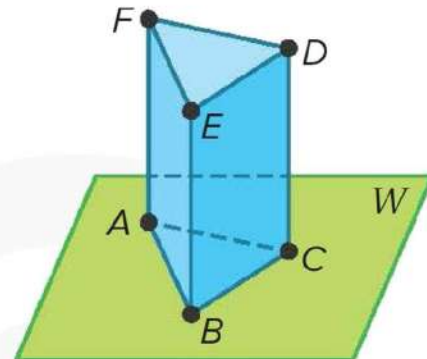


Let's Start!

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

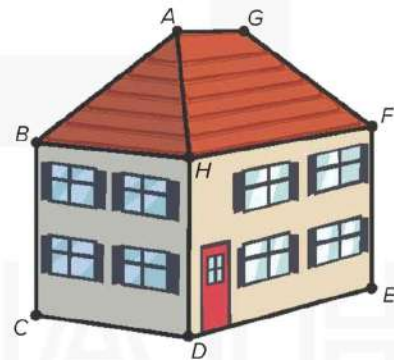
1) Name all the points in the plane W.

- A) F E D
- B) A B C D
- C) B C D E
- D) A B C**



2) Using the image, how many planes are visible.

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



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

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

2)  $y = x - 3$   
 $y = -4x + 3$

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

A) (1, -1)

B) (-2, 1)

C) Infinite solutions

D) No solution

2)  $y = -x - 3$   
 $y = -4x + 3$

A) (1, 5)

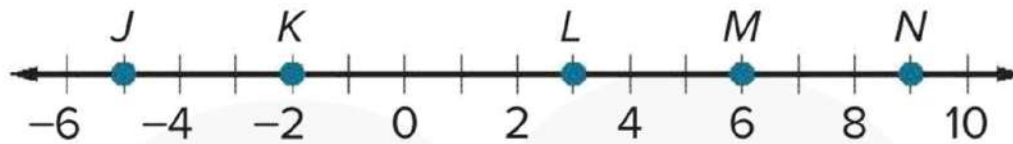
B) (2, -5)

C) Infinite solutions

D) No solution

**Question 4: Distance.**

Use the number line to find each measure.



1) JM

- A) 4 units
- B) 7 units
- C) 11 units
- D) 14 units

2) NJ

- A) 4 units
- B) 7 units
- C) 11 units
- D) 14 units



**Question 5: Elimination Using Multiplication.**

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)

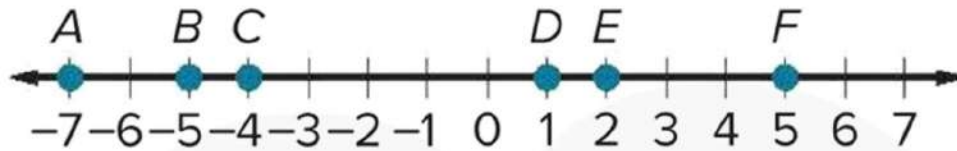
B) (-1, 2)

**C) Infinite solutions**

D) No solution

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

Refer to the number line.



1) Find the coordinate of point X such that the ratio of AX to XF is 1:3.

- A) 2
- B) -4**
- C) 5
- D) -7.5

2) Find the coordinate of point Y that is  $\frac{1}{6}$  of the distance from A to E.

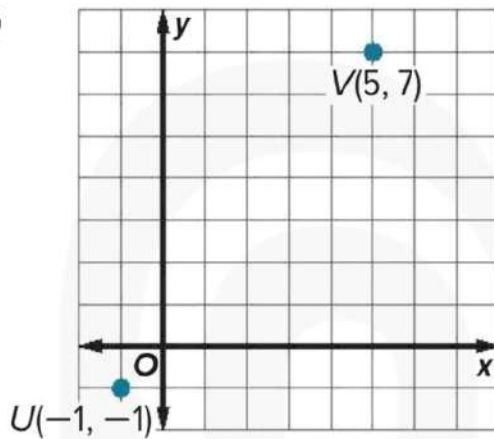
- A) -1.5
- B) -2
- C) -3.5
- D) -5.5**



**Question 7: Distance.**

Find the distance between each pair of points.

1)



A) 1.3 units

B) 5.7 units

C) 9.4 units

D) 10 units

2) A(2, 6), B(5, 10)

A) 1.5 units

B) 3 units

C) 5 units

D) 7.5 units

**Question 8: Midpoints and Bisectors.**

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

1) P(1, 7), Y(4, 5)

A) (-2, 7)

B) (-2, 9)

**C) (-5, 1)**

D) (7, 9)

2) Find the value of y if M is the midpoint of  $\overline{LN}$ .

A) 1

B) 2

**C) 3**

D) 4





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

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

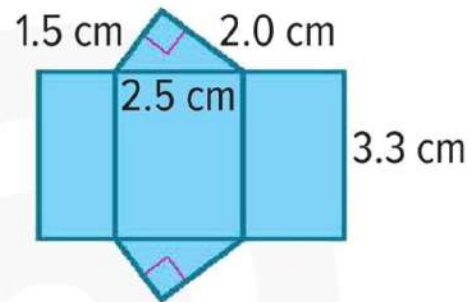
Then find its surface area.

A) Square pyramid  $9.8 \text{ cm}^2$

B) Triangular prism  $124 \text{ cm}^2$

C) Square pyramid;  $14.3 \text{ cm}^2$

D) Triangular prism;  $22.8 \text{ cm}^2$



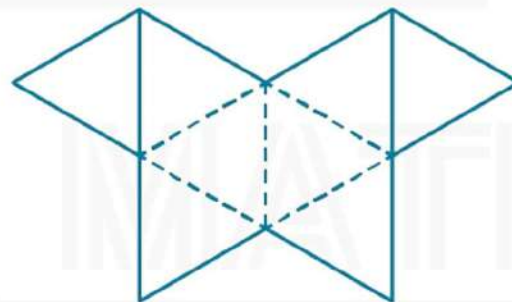
2) Identify the Platonic solid that is represented by the net.

A) Tetrahedron

B) Octahedron

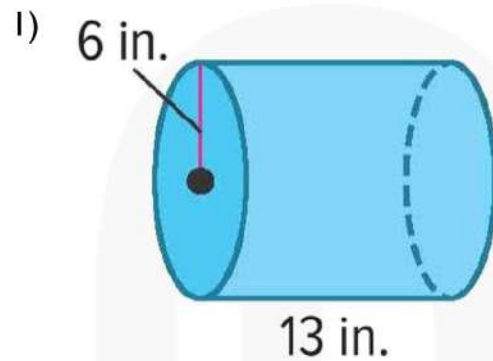
C) Dodecahedron

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.

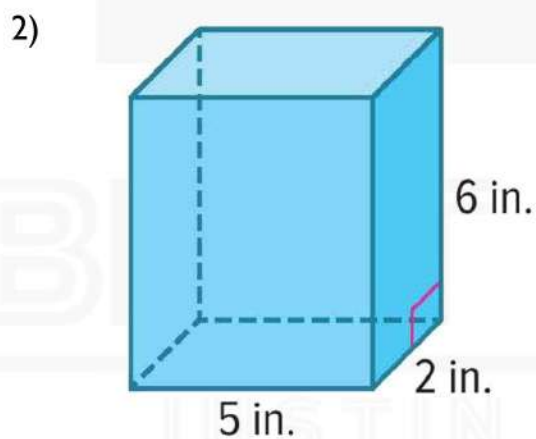


A)  $716.3 \text{ in}^2$ ;  $1470.3 \text{ in}^3$

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)  $104 \text{ in}^2$ ;  $60 \text{ in}^3$

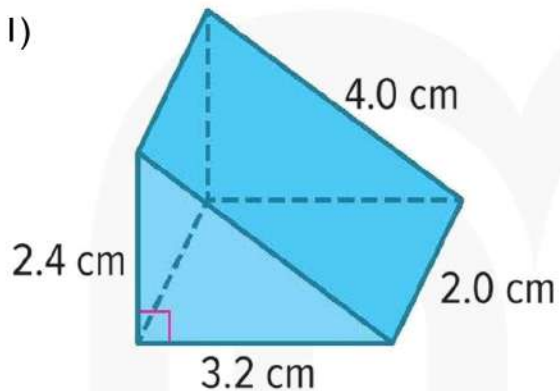
C)  $800 \text{ in}^2$ ;  $1280 \text{ in}^3$

D)  $282.7 \text{ in}^2$ ;  $314.2 \text{ in}^3$

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

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

1)



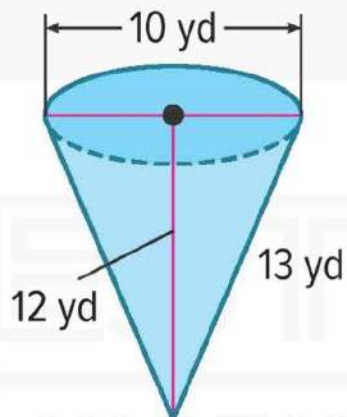
A)  $26.9 \text{ cm}^2$ ;  $7.7 \text{ cm}^3$

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)  $26.9 \text{ yd}^2$ ;  $7.7 \text{ yd}^3$

B)  $104 \text{ yd}^2$ ;  $60 \text{ yd}^3$

C)  $40.7 \text{ yd}^2$ ;  $24.4 \text{ yd}^3$

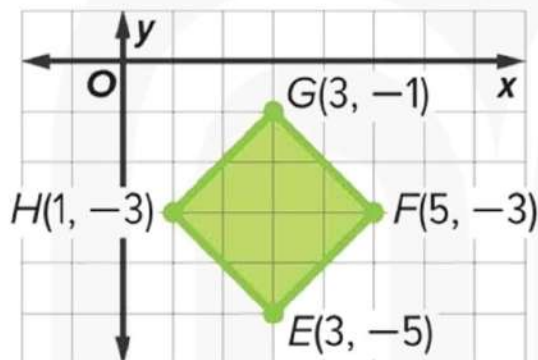
D)  $282.7 \text{ yd}^2$ ;  $314.2 \text{ yd}^3$



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

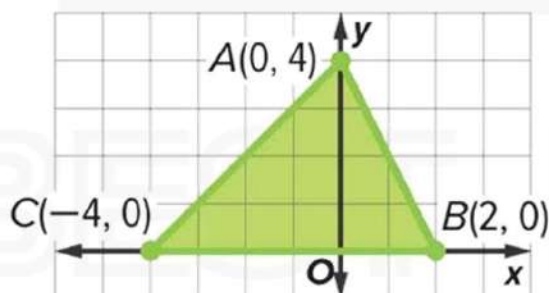
Find the perimeter or circumference and area of each figure if each unit on the graph measures 1 centimeter. Round answers to the nearest tenth, if necessary.

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) 11.3 cm;  $8 \text{ cm}^2$

2)



- A) 20.9 cm;  $16 \text{ cm}^2$
- B) 16.1 cm;  $12 \text{ cm}^2$
- C) 17.8 cm;  $25.1 \text{ cm}^2$
- D) 14.0 cm;  $15.7 \text{ cm}^2$



**Question 13: Substitution.**

1) FUNDRAISER: Nguyen is selling candles for a school fundraiser. He sells small candles for \$5 each and large candles for \$8 each. He sells a total of 27 candles and earns \$159. Write a system of equations to represent the information and use substitution to determine how many candles of each size Nguyen sells.

a) Write the system of equations

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

B)  $a + b = 27$ ;  $5a + 8b = 159$

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

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

b) Solve the system of equations

A) 5 small candles, 3 large candles

B) 17 small candles, 5 large candles

C) 8 small candles, 12 large candles

D) 19 small candles, 8 large candles

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

2) REASONING: Shelby and Calvin are conducting an experiment in chemistry class. They need 5 milliliters of a solution that is 65% acid and 35% distilled water. There is no undiluted acid in the chemistry lab, but they do have two beakers of diluted acid. Beaker A contains 70% acid and 30% distilled water. Beaker B contains 20% acid and 80% distilled water.

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) 1.5 mL from Beaker A and 2.5 mL from Beaker B

B) 4.5 mL from Beaker A and 0.5 mL from Beaker B

C) 7.5 mL from Beaker A and 5.5 mL from Beaker B

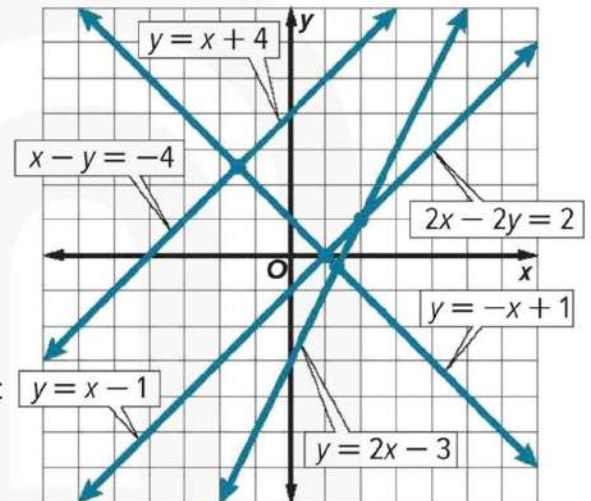
D) 5 mL from Beaker A and 6.5 mL from Beaker B

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

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



2)  $y = x - 1$   
 $2x - 2y = 2$

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

**Question 15: Angle Relationships.**

1)  $\angle Q$  and  $\angle R$  are complementary. The measure of  $\angle Q$  is  $26^\circ$  less than the measure of  $\angle R$ . Find the measure of each angle.

A)  $\angle Q = 45^\circ$ ;  $\angle R = 135^\circ$

B)  $\angle Q = 32^\circ$ ;  $\angle R = 58^\circ$

C)  $\angle Q = 18^\circ$ ;  $\angle R = 72^\circ$

D)  $\angle Q = 128^\circ$ ;  $\angle R = 52^\circ$

2) The bascule bridge shown is opening from its horizontal position to its fully vertical position. So far, the bridge has lifted  $35^\circ$  in 21 seconds. At this rate, how much longer will it take for the bridge to reach its vertical position?

A) 13 seconds

B) 39 seconds

C) 33 seconds

D) 41 seconds

