تجميعة 1 القسم الالكتروني وفق الهيكل الوزاري منهج ريفيل

المزيد من الملفات بحسب الصف التاسع المتقدم والمادة رياضيات في الفصل الثاني	
1	حل بالخطوات أسئلة امتحان نهائي سابق منهج ريفيل القسم الورقي للعام 2023-2024
2	إجابات تدريبات وفق الهيكل الوزاري لامتحان نهاية الفصل الثاني منهج ريفيل
3	حل تجميعة أسئلة مراجعة وفق الهيكل الوزاري منهج بريدج
4	تجميعة أسئلة مراجعة وفق الهيكل الوزاري منهج بريدج
5	ملزمة أسئلة وفق الهيكل الوزاري منهج ريفيل

G9Adv EoT2
Practice Exam 1

Part 1 Electronic (MCQ)

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

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https://youtu.be/XAqD7W6p10w

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Justin Dsouza
www.bestmath.in
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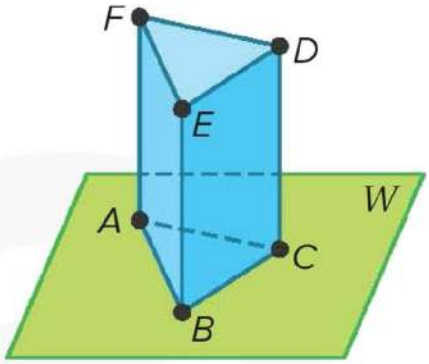
Question 1: Points, Lines, and Planes.

1) How many planes contain the points AC.



A) 1

B) 2

C) 3

D) 4

2) If the surface of a lake represents a plane, what geometric term is represented by the intersection of a fishing line and the lake'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) $4x - 6y = 12$
$-2x + 3y = -6$

A) Consistent; independent; 1 solution

B) Consistent; dependent; 2 solutions

C) Consistent; dependent; infinitely many solutions

D) Inconsistent

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

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

A) (0, 3)

B) (11, 0)

C) Infinite solutions

D) No solution

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

A) (7, 3)

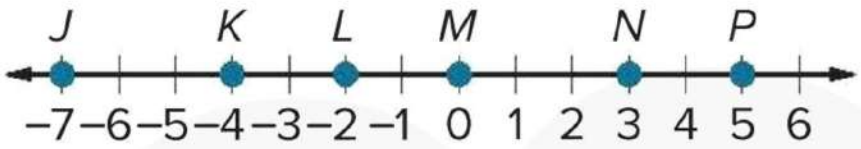
B) (-1, 2)

C) Infinite solutions

D) No solution

Question 4: Distance.

Use the number line to find each measure.



1) JP

A) 3 units

B) 5 units

C) 7 units

D) 12 units

2) PL

A) 3 units

B) 5 units

C) 7 units

D) 12 units

Question 5: Elimination Using Multiplication.

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)

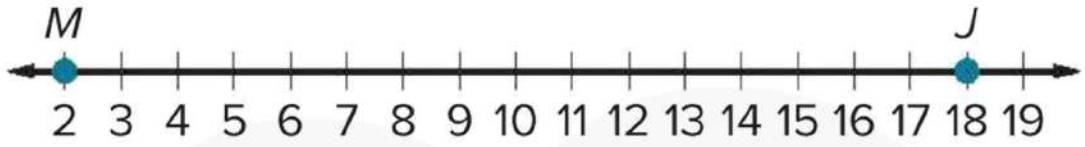
B) (2, -5)

C) Infinite solutions

D) No solution

Question 6: Locating Points on a Number Line.

Refer to the number line.



1) Find the coordinate of point X such that the ratio of MX to XJ is 2:3.

A) 2.5

B) 5.3

C) 8.4

D) 10

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

A) 5

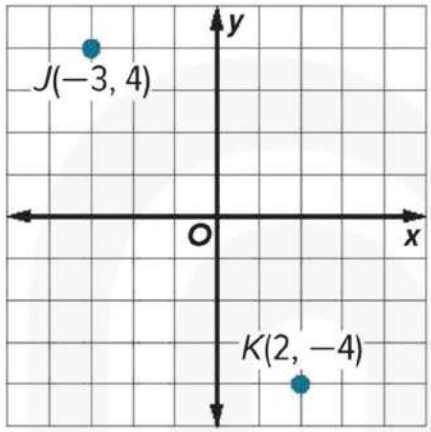
B) 10

C) 12.5

D) 15

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) 12.2 units

2) A(3, 4), B(7, 2)

A) 1.5 units

B) 3 units

C) 4.5 units

D) 7 units

Question 8: Midpoints and Bisectors.

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

1) N(5, 4), P(6, 3)

   A) (8, 4)

   B) (7, 2)

   C) (-5, 1)

   D) (7, 9)

2) N(2, 1), P(4, 5)

   A) (8, 4)

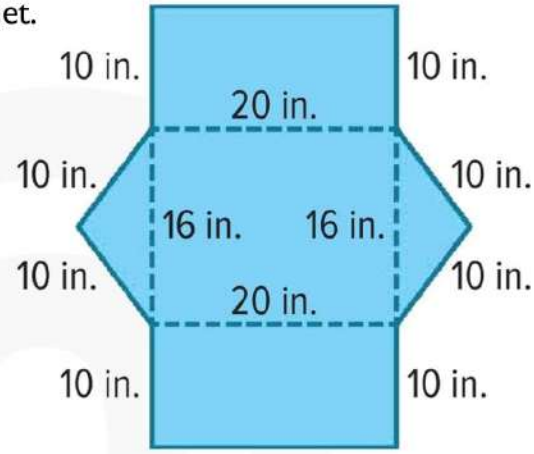
   B) (7, 2)

   C) (-5, 1)

   D) (6, 9)

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 $64 + 64\sqrt{21}$ in^2

B) Triangular prism 888 in^2

C) Square pyramid; $64 + 32\sqrt{21}$ in^2

D) Triangular prism; 816 in^2

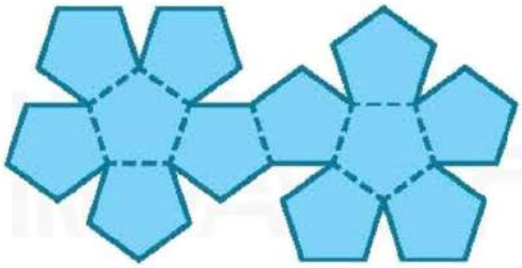
2) Identify the Platonic solid that is represented by the net.

A) Dodecahedron

B) Pentagonal prism

C) Dodecahedron

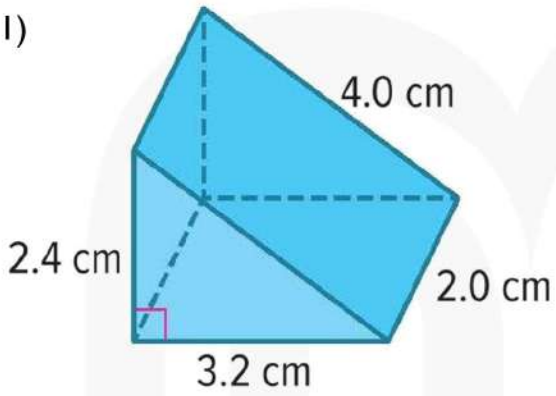
D) Icosahedron



Question 10: Three-Dimensional Figures.

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

1)



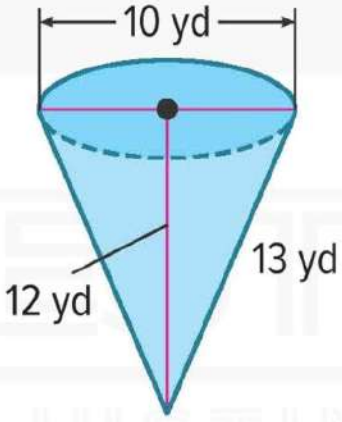
A) 26.9 cm^2; 7.7 cm^3

B) 104 cm^2; 60 cm^3

C) 40.7 cm^2; 24.4 cm^3

D) 282.7 cm^2; 314.2 cm^3

2)



A) 26.9 yd^2; 7.7 yd^3

B) 104 yd^2; 60 yd^3

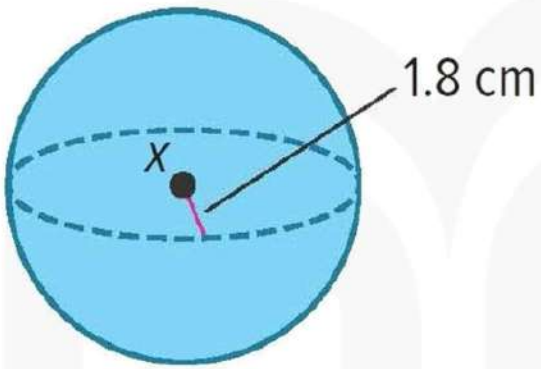
C) 40.7 yd^2; 24.4 yd^3

D) 282.7 yd^2; 314.2 yd^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)



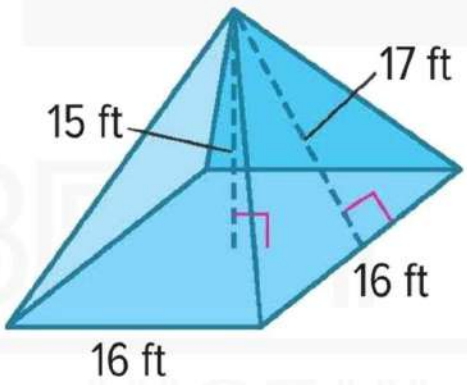
A) 26.9 cm^2; 7.7 cm^3

B) 104 cm^2; 60 cm^3

C) 40.7 cm^2; 24.4 cm^3

D) 282.7 cm^2; 314.2 cm^3

2)



A) 26.9 ft^2; 7.7 ft^3

B) 104 ft^2; 60 ft^3

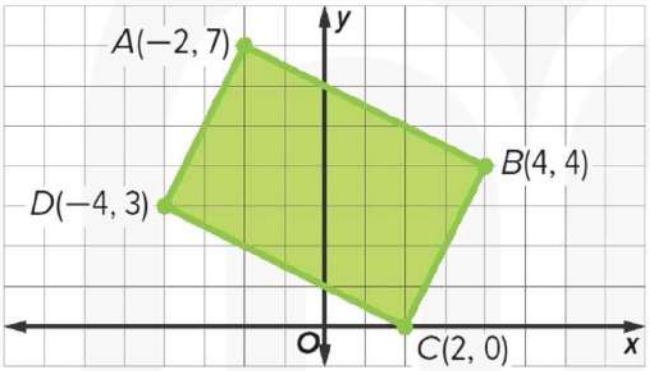
C) 800 ft^2; 1280 ft^3

D) 282.7 ft^2; 314.2 ft^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)



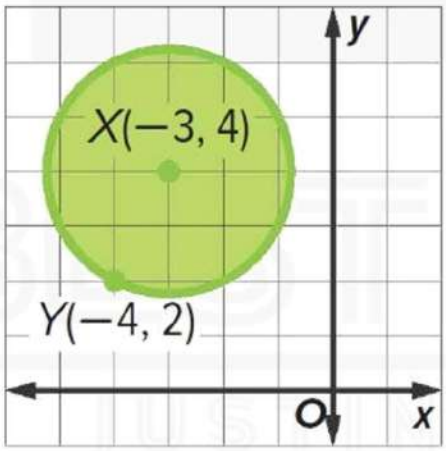
A) 20.9 cm; 16 cm^2

B) 22.4 cm; 30 cm^2

C) 17.8 cm; 25.1 cm^2

D) 14.0 cm; 15.7 cm^2

2)



A) 20.9 cm; 16 cm^2

B) 22.4 cm; 30 cm^2

C) 17.8 cm; 25.1 cm^2

D) 14.0 cm; 15.7 cm^2

Question 13: Substitution.

1) TREE PRESERVATION: A town ordinance defines an adult tree as having a diameter greater than 10 inches and a sapling as having a diameter less than 10 inches. The ordinance requires that on a new building project, two new trees are planted for each adult tree felled and six new trees are planted for each sapling felled. Last year, there were 167 trees felled, and the community planted 742 replacement trees. How many of each type of tree were felled?

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 adult trees, 1 sapling

B) 65 adult trees, 102 saplings

C) 12 adult trees, 6 saplings

D) 19 adult trees, 8 saplings

Question 13: Substitution (Continued).

2) BEVERAGES: Yui is buying beverages for her friends. She buys a total of 6 bottles of water and sports drinks. Bottles of water cost \$1.50 each, and sports drinks cost \$2.50 each. She spends a total of \$10. Write a system of equations to represent the information, and use substitution to determine how many of each type of drink Yui buys.

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) $x + y = 6;$ $1.5x + 2.5y = 10$

b) Solve the system of equations

A) 5 bottles of water, 1 sports drink

B) 2 bottles of water, 4 sports drinks

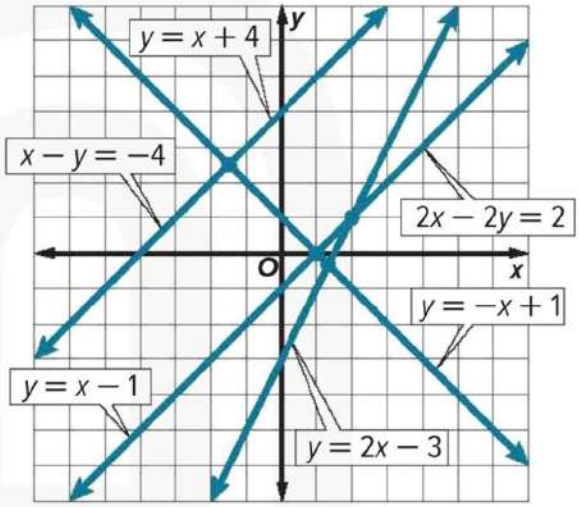
C) 12 bottles of water, 6 sports drink

D) 19 bottles of water, 8 sports drink

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



A) 1 solution; consistent; independent

B) 2 solutions; consistent; dependent

C) Infinite solutions; consistent; dependent

D) No solution; inconsistent

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

A) 1 solution; consistent; independent

B) 2 solutions; consistent; dependent

C) Infinite solutions; consistent; dependent

D) No solution; inconsistent

Question 15: Angle Relationships.

1) Find the measures of two supplementary angles if the difference between the measures of the two angles is 35°.

A) 128°; 52°

B) 45°; 135°

C) 72.5°; 107.5°

D) 18°; 72°

2) The measure of the supplement of an angle is three times the measure of the angle. Find the measures of the angle and its supplement.

A) 128°; 52°

B) 45°; 135°

C) 72.5°; 107.5°

D) 18°; 72°

G9Adv EoT2
Practice Exam I

Part 2 Writing (FRQ)

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

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Question 16: Line Segments.

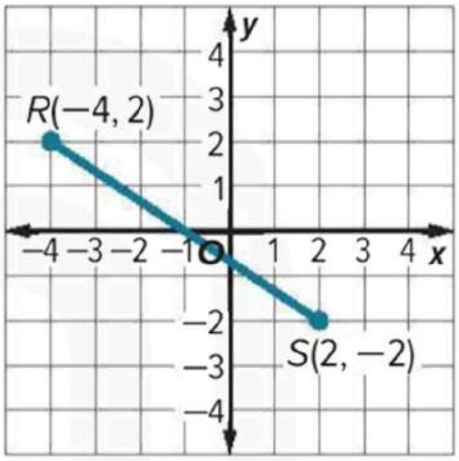
Find the value of the variable and YZ if Y is between X and Z.

$XY = 6b, YZ = 8b, XZ = 175$

Question 17: Locating Points on a Coordinate Plane.

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

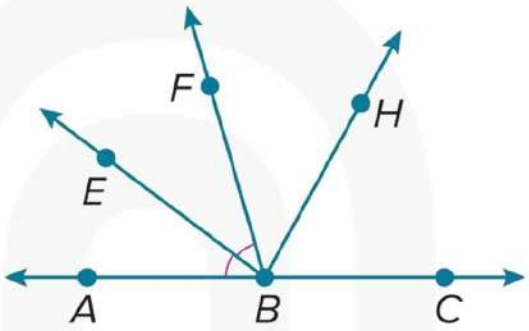
Point X on $\overline{RS}$ is $\frac{1}{6}$ of the distance from R to S.



Question 18: Angles and Congruence.

In the figure, $\overline{BA}$ and $\overline{BC}$ are opposite rays. $\overline{BH}$ bisect ∠EBC and $\overline{BE}$ bisects ∠ABF.

If $m\angle ABE = (2n + 7)°$ and $m\angle EBF = (4n - 13)°$ find $m\angle ABE$.



Question 19: Substitution.

Use substitution to solve the system of equations.

$-1 = 2x - y$

$8x - 4y = -4$

Question 20: Systems of Inequalities.

Solve the system of inequalities by graphing.

$y - x > 4$

$x + y > 2$

Question 21: Angle Relationships.

The tangram is a puzzle consisting of eight flat shapes called trans which are put together to form images. Find the values of x and y such that $\overleftrightarrow{AD}$ and $\overleftrightarrow{EC}$ in the tangram are perpendicular.