

تم تحميل هذا الملف من موقع المناهج الإماراتية



حل أسئلة اختبار تجريبي وفق الهيكل الوزاري منهج ريفيل

موقع المناهج ← المناهج الإماراتية ← الصف التاسع المتقدم ← رياضيات ← الفصل الأول ← حلول ← الملف

تاريخ إضافة الملف على موقع المناهج: 12:12:48 2024-12-07

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

المزيد من مادة
رياضيات:

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 الأول

أسئلة اختبار تجريبي وفق الهيكل الوزاري منهج ريفيل

1

حل تجميعية أسئلة وفق الهيكل الوزاري منهج ريفيل المسار المتقدم

2

حل الكراسة التدريبية للاختبار النهائي وفق الهيكل الوزاري

3

الكراسة التدريبية للاختبار النهائي وفق الهيكل الوزاري

4

نموذج تدريبي نهائي وفق الهيكل الوزاري

5



وزارة التربية والتعليم
MINISTRY OF EDUCATION

الفصل الدراسي الأول

2025

2025-2024

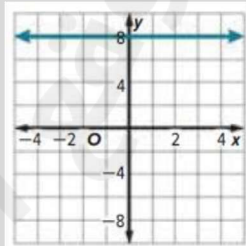
امتحان تجريبي في مادة

Mathematics- Grade 9 Advanced

برنامج الشراكة المدرسية بين

مدرسة أم عمارة للتعليم الثانوي
مدرسة المعرفة (2) الحلقة الثانية والثالثة بنات



| PART 1: Circle the letter corresponding to correct answer | | | | | | | | | | | |
|--|---|---|---|---|---|----|---|----|---|----|---|
| 1. Solve the equation $12 = -7f - 9$ | | | | | | | | | | | |
| A- $f = -3$ | B- $f = 3$ | | | | | | | | | | |
| C- $f = \frac{3}{7}$ | D- $f = -\frac{3}{7}$ | | | | | | | | | | |
| 2. Solve the equation $ 4X - 2 = 26$ | | | | | | | | | | | |
| A- $\{6, -7\}$ | B- $\{-\frac{1}{6}, \frac{1}{7}\}$ | | | | | | | | | | |
| C- $\{7, -6\}$ | D- $\{2, 6\}$ | | | | | | | | | | |
| 3. Find the rate of change of the function from the table | | | | | | | | | | | |
| | <table><thead><tr><th>X</th><th>y</th></tr></thead><tbody><tr><td>5</td><td>2</td></tr><tr><td>10</td><td>3</td></tr><tr><td>15</td><td>4</td></tr><tr><td>20</td><td>5</td></tr></tbody></table> | X | y | 5 | 2 | 10 | 3 | 15 | 4 | 20 | 5 |
| X | y | | | | | | | | | | |
| 5 | 2 | | | | | | | | | | |
| 10 | 3 | | | | | | | | | | |
| 15 | 4 | | | | | | | | | | |
| 20 | 5 | | | | | | | | | | |
| A- $\frac{1}{5}$ | B- $-\frac{1}{5}$ | | | | | | | | | | |
| C- 5 | D- -5 | | | | | | | | | | |
| 4. Write the function that describes the graph | | | | | | | | | | | |
| |  | | | | | | | | | | |
| A- $y = -8$ | B- $y = 8$ | | | | | | | | | | |
| C- $x = 8$ | D- $x = -8$ | | | | | | | | | | |



5. Solve the proportion:

$$\frac{2C - 1}{3} = \frac{C + 2}{4}$$

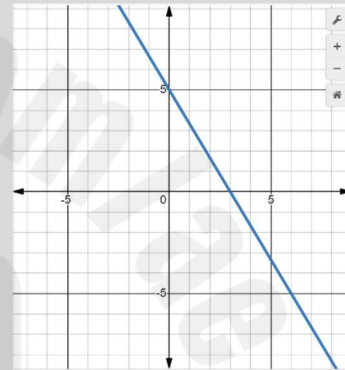
A- $C = -2$

B- $C = -10$

C- $C = 2$

D- $C = 10$

6. Use the graph of the function to write its equation



A- $5X + 3Y = 15$

B- $5Y + 3X = 15$

C- $5Y = 15$

D- $3X = 15$

7. Write an equation in standard form for the line that passes through $(-2, -3)$, $(4, -7)$

A- $3X + 2Y = -13$

B- $2X + 3Y = -13$

C- $\frac{1}{3}X + \frac{1}{2}Y = -13$

D- $-3X + 2Y = 13$



8. Describe the translation in $g(x) = |x + 1| - 3$, as it related to the graph of the parent function

A- The graph is translated 1 unit left and 3 units up

B- The graph is translated 1 unit left and 3 units down

C- The graph is translated 3 units left and 1 unit down

D- The graph is translated 1 unit right and 3 units up

9. Write a sentence for the equation $2y - 5 = 4$

A- Two plus y minus five equals four.

B- Two times the quantity of number four equals five

C- five minus two times a number y equals four

D- Two times a number y minus five equals four

10. Solve the inequality $|x+8| < 16$

A- $\{x : -24 \leq x \leq 8\}$

B- $\{x : -24 < x < 8\}$

C- $\{x : x < -24\}$

D- $\{x : x \leq 8\}$



11. Suppose $f(X) = 2[X - 1]$, find $f(1.5)$

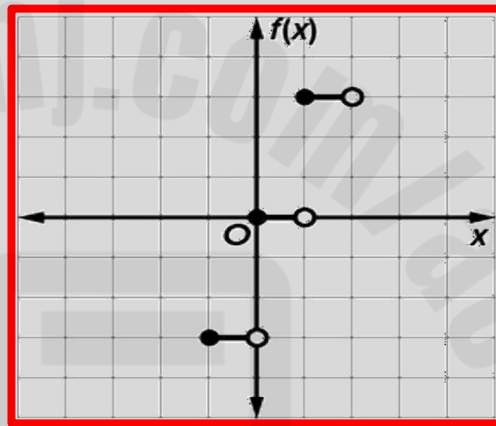
A. $\{2\}$

B. $\{1\}$

C. $\{\frac{1}{2}\}$

D. $\{0\}$

12. Use the graph of the function to write its equation



A. $f(x) = [X]$

B. $f(x) = [X] + 3$

C. $f(x) = 3[X]$

D. $f(x) = [X] - 3$

13. Select the solution set for the inequality $11X \leq 20 + 10X$

A. $\{X : X \leq -20\}$

B. $\{X : X > -20\}$

C. $\{X : X \leq 20\}$

D. $\{X : X \geq 20\}$



14. Write an equation for the line that passes through (8, 2) and is parallel to the graph

$$Y = \frac{3}{4}X + 2$$

A. $Y = \frac{-4}{3}X + 2$

B. $Y = \frac{3}{4}X - 4$

C. $Y = \frac{3}{4}X + 2$

D. $Y = \frac{-4}{3}X - 2$

15. Find the inverse of the function $f(X) = \frac{2}{3}x + 6$

A. $f^{-1}(X) = \frac{3}{2}X + \frac{1}{6}$

B. $f^{-1}(X) = \frac{3}{2}X - 9$

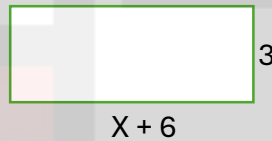
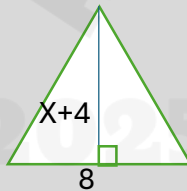
C. $f^{-1}(X) = \frac{-2}{3}X - 9$

D. $f^{-1}(X) = \frac{3}{2}X - 6$

PART 2:

Show all your work when answering these questions

16. Write and solve an equation to find the value of X so the figures have the same area



The area of the rectangle is $3(x + 6)$, and the area of the triangle is $\frac{1}{2}(8)(x + 4)$.

The equation $3(x + 6) = \frac{1}{2}(8)(x + 4)$ represents the situation where the areas of the figures are the same.

$$3(x + 6) = \frac{1}{2}(8)(x + 4) \quad \text{Original equation}$$

$$3(x + 6) = 4(x + 4) \quad \text{Multiply } \frac{1}{2} \text{ and 8.}$$

$$3x + 18 = 4x + 16 \quad \text{Distributive Property}$$

$$3x + 18 - 16 = 4x + 16 - 16 \quad \text{Subtract 16 from each side.}$$

$$3x + 2 = 4x \quad \text{Simplify.}$$

$$3x - 3x + 2 = 4x - 3x \quad \text{Subtract 3x from each side.}$$

$$2 = x \quad \text{Simplify.}$$

The areas are the same when $x = 2$.



17. Write an equation for n^{th} term of the arithmetic sequence for $n \geq 1$, then find the 7th term -3, -8, -13, -18

The common difference is -5 , so $d = -5$. The first term is -3 , so $a_1 = -3$.

$$\begin{aligned} a_n &= a_1 + (n-1)d && n^{\text{th}} \text{ term of an arithmetic sequence} \\ a_n &= -3 + (n-1)(-5) && \text{Substitute } -3 \text{ for } a_1 \text{ and } -5 \text{ for } d. \\ a_n &= -3 - 5n + 5 && \text{Distributive Property} \\ a_n &= -5n + 2 && \text{Simplify.} \end{aligned}$$

$$\begin{aligned} a_n &= -5n + 2 && \text{Equation} \\ a_7 &= -5(7) + 2 && \text{Substitute 7 for } n. \\ a_7 &= -35 + 2 && \text{Multiply.} \\ a_7 &= -33 && \text{Simplify.} \end{aligned}$$

The 7th term is -33 .

18. Write the equation of line that passes through $(1, -5)$, and has a slope of $-\frac{3}{2}$

Step 1 Find the y-intercept.

$$\begin{aligned} y &= mx + b && \text{Slope - intercept form} \\ -5 &= -\frac{3}{2}(1) + b && m = -\frac{3}{2}, x = 1, \text{ and } y = -5 \\ -5 &= -\frac{3}{2} + b && \text{Simplify.} \\ -\frac{7}{2} &= b && \text{Add } \frac{3}{2} \text{ to each side.} \end{aligned}$$

Step 2 Write the equation in slope-intercept form.

$$\begin{aligned} y &= mx + b && \text{Slope - intercept form} \\ y &= -\frac{3}{2}x - \frac{7}{2} && m = -\frac{3}{2} \text{ and } b = -\frac{7}{2} \end{aligned}$$

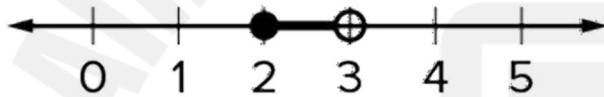
19. Solve the compound inequality, then graph the solution set

$$5h - 4 \geq 6 \text{ and } 7h + 11 < 32$$

$$\begin{array}{lll} 5h - 4 \geq 6 & \text{and} & 7h + 11 < 32 \\ 5h - 4 + 4 \geq 6 + 4 & \text{Add and subtract.} & 7h + 11 - 11 < 32 - 11 \\ 5h \geq 10 & \text{Simplify.} & 7h < 21 \\ \frac{5h}{5} \geq \frac{10}{5} & \text{Divide.} & \frac{7h}{7} < \frac{21}{7} \\ h \geq 2 & \text{Simplify.} & h < 3 \end{array}$$

The solution set is $\{h \mid 2 \leq h < 3\}$.

Graph the solution set on a number line.



20. Graph the equation by making a table, $Y - 8 = -X$

| X | y |
|---|---|
| 0 | 8 |
| 1 | 7 |
| 2 | 6 |
| 3 | 5 |
| 4 | 4 |

Solve the equation for y .
 $y - 8 = -x$ Original equation
 $y = -x + 8$ Add 8 to each side.

