نموذج تدريبي Exam Mock وفق الهيكل الوزاري الجديد منهج ريفيل

تم تحميل هذا الملف من موقع المناهج الإماراتية	
موقع المناهج ⇦ المناهج الإماراتية ⇦ الصف التاسع المتقدم ⇦ رياضيات ⇦ الفصل الأول ⇦ ملفات متنوعة ⇦ الملف	
تاريخ إضافة الملف على موقع المناهج: 12-11-2025 21:36:05	
ملفات ا كتب للمعلم ا كتب 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: Saleh Abu Najla	

التواصل الاجتماعي بحسب الصف التاسع المتقدم					
صفحة المناهج الإماراتية على فيسبوك					
المواد على تلغرام	التربية الاسلامية	اللغة العربية	اللغة الانجليزية	الرياضيات	

المزيد من الملفات بحسب الصف التاسع المتقدم والمادة رياضيات في الفصل الأول	
1	مراجعة نهائية وفق الهيكل الوزاري الجديد منهج ريفيل
2	كراسة تدريبية مراجعة وفق الهيكل الوزاري الجديد منهج بريدج
3	تجميعة أسئلة وفق الهيكل الوزاري الجديد منهج بريدج بدون الحل
4	حل تجميعة أسئلة شاملة وفق الهيكل الوزاري الجديد منهج بريدج
5	تجميعة أسئلة شاملة وفق الهيكل الوزاري الجديد منهج بريدج

End of Term 1 Math Mock Exam 2025-2026

Student ID No.	
Student Name	
School	
Class	**9**
Stream	**Advanced**
Subject	**Math**

Part	Question	Mark
1	**Q1 to 20** (3 marks for each question)	
2	**Q21** (6 marks)	
	Q22 (8 marks)	
	Q23 (6 marks)	
	Q24 (6 marks)	
	Q25 (6 marks)	
	Q26 (8 marks)	
Total mark		**/100**

Ms. Najla Abu Saleh

Part 1	الجزء 1
Circle the correct answer symbol.	ضع دائرة حول رمز الإجابة الصحيحة.

Question	1	السؤال

Select the solution set for:

$$-3(7n + 3) < 6n$$

A	$n > -\frac{1}{3}$	**C**	$n > \frac{1}{3}$
B	$n < -\frac{1}{3}$	**D**	$n < \frac{1}{3}$

Question	1	السؤال

Select the solution set for:

$$7 + t \leq 2(t + 3) + 2$$

A	$t \geq -1$	**C**	$t \geq 1$
B	$t \leq -1$	**D**	$t \leq 1$

Question	2	السؤال

Solve the equation:

$$\frac{f}{-7} - 8 = 2$$

A	f= 70	**C**	f= 14
B	f= -70	**D**	f= -14

Question	2	السؤال

Solve the equation:

$$1 + \frac{r}{9} = 4$$

A	r= 27	**C**	r = 36
B	r = -27	**D**	r= -36

Question	3	السؤال

Find the **value of r** so that the line passes **through the points (r,4) and (7,1)** has a **slope m=** $\frac{3}{4}$.

A	r= 3	**C**	r= 5
B	r= 9	**D**	r= 11

Question	3	السؤال

Find the **value of r** that gives the line passing **through (3,2) and (r,-4)** a **slope that is undefined.**

A	r=	**C**	r= 2
B	r= 3	**D**	r= 0

Question	4	السؤال

Select the solution set for:

$$-5 < 3p + 7 \leq 22$$

A	$-4 < p \leq 5$	**C**	$-3 < p \leq 5$
B	$-2 < p \leq 7$	**D**	$No\ Solution$

Question	4	السؤال

Select the solution set for:

$$-4a + 13 \geq 29\ and\ 10 < 6a - 14$$

A	$a \leq -4\ and\ a > 4$	**C**	$a \geq -4\ and\ a > 4$
B	$All\ real\ numbers$	**D**	$No\ Solution$

Question	5	السؤال

Solve the proportion:

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

A	C= -2	**C**	C= -10
B	C= 2	**D**	C= 10

Question	5	السؤال

Solve the proportion:

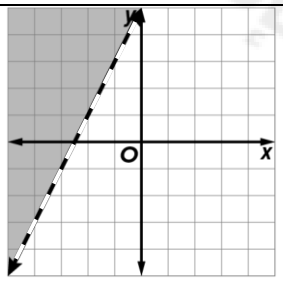
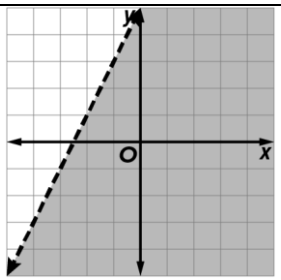
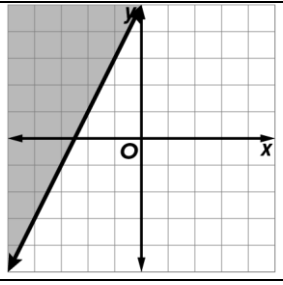
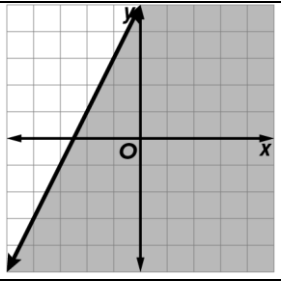
$$\frac{9b-3}{9} = \frac{5b+5}{3}$$

A	b= -3	**C**	b= -6
B	b= 3	**D**	b= 6

Question	6	السؤال

Which is the graph of

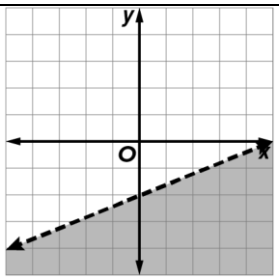
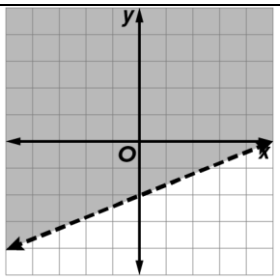
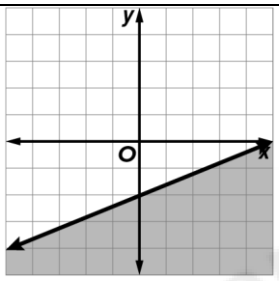
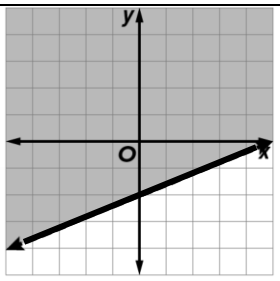
$$-2x + y < 5\,?$$

A		**C**	
B		**D**	

Question	6	السؤال

Which is the graph of

$$5y - 2x \geq -10\ ?$$

A		**C**	
B		**D**	

Question	7	السؤال

Solve the equation:

$$\frac{3}{5}q = -15$$

A	q= 9	**C**	q= 25
B	q= -9	**D**	q= -25

Question	7	السؤال

Solve the equation:

$$447 + x = -261$$

A	x= 708	**C**	x= 186
B	x= −708	**D**	x= -186

Question	8	السؤال

Solve the equation:

$$|4x - 2| = 26$$

A	{6, -7}	**C**	{7, -6}
B	$\{\frac{-1}{6}, \frac{1}{7}\}$	**D**	No solution { }

Question	8	السؤال

Solve the equation:

$$|8k - 5| = -4$$

A	$\{\frac{9}{8}, \frac{1}{8}\}$	**C**	{-1, 2}
B	$\{\frac{-9}{8}, \frac{-1}{8}\}$	**D**	No solution { }

Question	9	السؤال

Maha wants to take strength training classes at the community center. She has to pay a **one-time enrollment fee of 25 AED** to join the community center, and **then 45 AED for each class** she wants to take. **Write an equation in slope-intercept form for the cost of taking x classes.**

A	$y = 25x + 45$	**C**	$y = 25x - 45$
B	$y = 45x + 25$	**D**	$y = 45x - 25$

Question	9	السؤال

Ali's grandmother gave him **100 AED for his birthday**. Wade wants to save his money to buy a new portable game console. **Each month, he adds 25 AED** to his savings. **Write an equation in slope-intercept form to represent Ahmed's saving y after x months.**

A	$y = 100x + 25$	**C**	$y = 25x - 100$
B	$y = 25x + 100$	**D**	$y = 100x - 25$

Question	10	السؤال

Select the equation in slope-intercept form for the line that passes through **(-4, 2)** and **perpendicular** to the graph of $\mathbf{y = -\frac{1}{2}x + 6}$

A	$y = -\frac{1}{2}x + 4$	**C**	$y = 2x + 8$
B	$y = 2x + 10$	**D**	$y = -2x + 10$

Question	10	السؤال

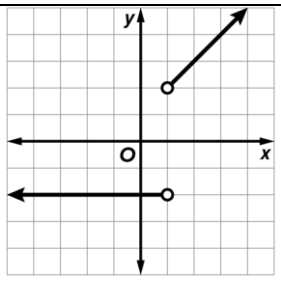
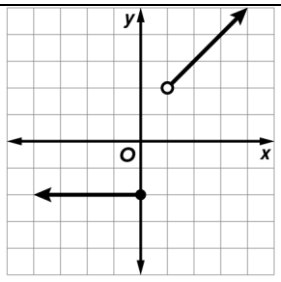
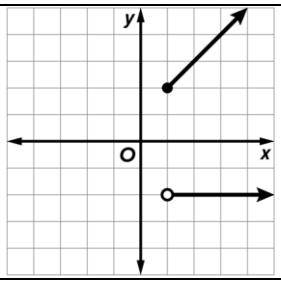
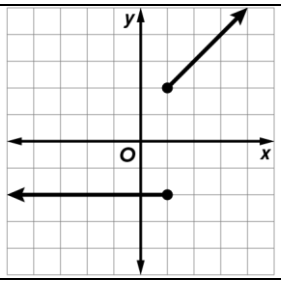
Select the equation in slope-intercept form for the line that passes through **(4, -3)** and **parallel** to the graph of $\mathbf{y = 3x - 5}$

A	$y = 3x - 15$	**C**	$y = -3x - 15$
B	$y = 3x + 9$	**D**	$y = 3x - 9$

Question	11	السؤال

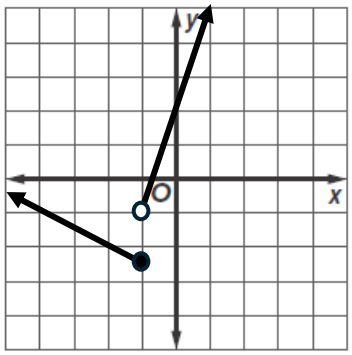
Select the graph of:

$$f(x) = \begin{cases} -2 & \text{if } x < 1 \\ x + 1 & \text{if } x > 1 \end{cases}$$

A		**C**	
B		**D**	

Question	11	السؤال

Use the graph of the function to write its equation.



A	$f(x)=\begin{cases}3x+2 & \text{if } x>-1\\ -\frac{1}{2}x-3 & \text{if } x\le -1\end{cases}$	**C**	$f(x)=\begin{cases}3x+2 & \text{if } x>-1\\ \frac{1}{2}x-3 & \text{if } x\le -1\end{cases}$
B	$f(x)=\begin{cases}3x+2 & \text{if } x>1\\ -\frac{1}{2}x-3 & \text{if } x\le 1\end{cases}$	**D**	$f(x)=\begin{cases}3x-2 & \text{if } x\ge -1\\ -\frac{1}{2}x-3 & \text{if } x>-1\end{cases}$

Question	11	السؤال

Suppose f(x) = 2⟦x - 1⟧

Find f (2.5)

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

Question	12	السؤال

Translate the sentence into an equation or formula:

"Seven less than the sum of p and t is as much as 6."

A	p + t + 7 = 6	**C**	7 – (p + t) = 6
B	p + t – 7 = 6	**D**	(p + t) – 7 = 6

Question	12	السؤال

Select the sentence that represents the equation:

7(p + 23) = 70

A	Seven times p plus twenty-three equals seventy.	**C**	Seven times the quantity *p* minus twenty-three equals seventy.
B	Seven times the sum of *p* and twenty-three equals seventy.	**D**	The quantity seven times *p* plus twenty-three equals seven.

Question	13	السؤال

Candidate A and Candidate B are running for mayor. A poll shows that **38%** of voters in the poll voted for Candidate A. The poll is accurate within **±5%.**

Write and solve an **absolute value equation** to find the **maximum and minimum** percent of **voters** who might actually vote for Candidate A.

A	**Equation:** $\mid x - 38 \mid = 3$ **Solution:** $x = 41\%$ and $x = 35\%$	**C**	**Equation:** $\mid x - 38 \mid = 7$ **Solution:** $x = 45\%$ and $x = 31\%$
B	**Equation:** $\mid x - 5 \mid = 38$ **Solution:** $x = 43\%$ and $x = 33\%$	**D**	**Equation:** $\mid x - 38 \mid = 5$ **Solution:** $x = 43\%$ and $x = 33\%$

Question	13	السؤال

Tolerance is an allowance made for imperfections in a manufactured object. The manufacturer of an oven specifies a temperature tolerance of **±15°F**.
This means that the temperature inside the oven will be within **15°F** of the temperature to which it is set.

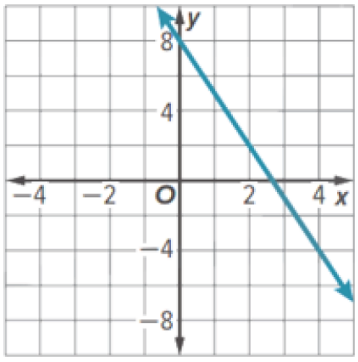
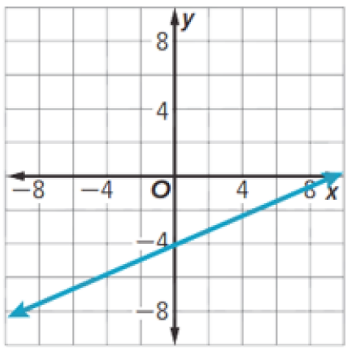
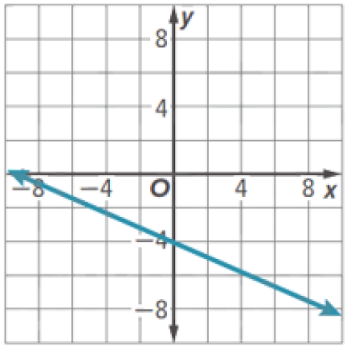
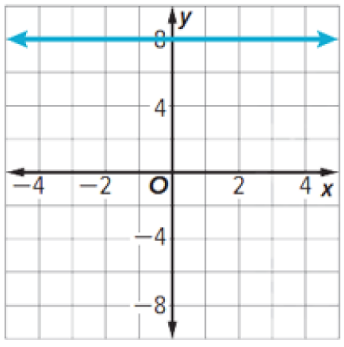
Write and solve an **absolute value equation** to find the **maximum and minimum temperatures** inside the oven when the thermostat is set to **400°F**.

A	**Equation:** $\mid x - 15 \mid = 400$ **Solution:** $x = 415°F$ and $x = 385°F$	**C**	**Equation:** $\mid x - 400 \mid = 15$ **Solution:** $x = 415°F$and $x = 385°F$
B	**Equation:** $\mid x - 400 \mid = 12$ **Solution:** $x = 412°F$and $x = 388°F$	**D**	**Equation:** $\mid x - 400 \mid = 20$ **Solution:** $x = 420°F$and $x = 380°F$

Question	14	السؤال

Select the graph representing the equation:

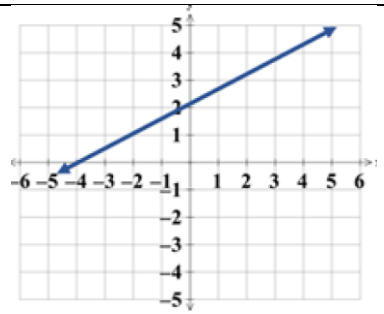
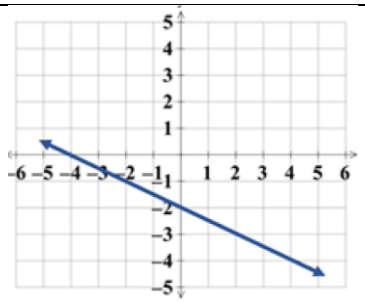
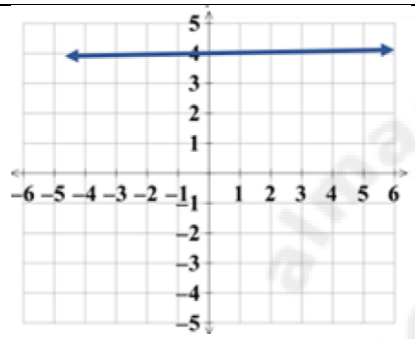
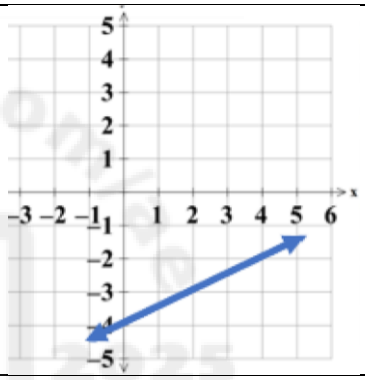
$$3x + y = 8$$

A		**C**	
B		**D**	

Question	14	السؤال

Select the graph representing the equation:

$$y = \frac{1}{2}x - 4$$

A		**C**	
B		**D**	

Question	15	السؤال

Use the following arithmetic sequence to find the **34th term** of the sequence.

-4, -1, 2, 5, ...

A	92	**C**	95
B	98	**D**	100

Question	15	السؤال

Write a function to represent the sequence **1, 10, 19, 28, ...**

A	$f(n) = 9n - 8$	**C**	$f(n) = 8n - 9$
B	$f(n) = n - 8$	**D**	$f(n) = 9n + 8$

Question	16	السؤال

Describe the translation graph of $g(x) = x + 2$ as it relates to the graph of the parent function f(x)= x

A	The parent function is translated 2 units right.	**C**	The parent function is translated 2 units left.
B	The parent function is translated 2 units down.	**D**	The parent function is translated 2 units up.

Question	16	السؤال

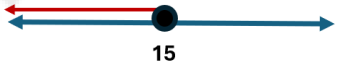
Describe the translation graph of $g(x) = (x - 9) + 5$ as it relates to the graph of the parent function f(x)= x

A	The graph is translated 9 units left and 5 units up.	**C**	The graph is translated 5 units left and 9 units up.
B	The graph is translated 9 units right and 5 units up.	**D**	The graph is translated 5 units right and 9 units up.

Question	17	السؤال

Solve the inequality. Graph the solution on a number line.

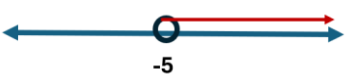
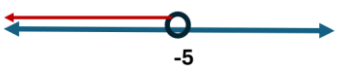
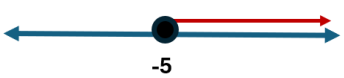
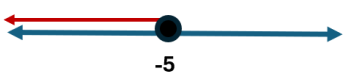
$r - 8 \leq 7$

A	$r \geq 15$ 	**C**	$r \leq 15$ 
B	$r \geq 15$ 	**D**	$r \leq 15$ 

Question	17	السؤال

Solve the inequality. Graph the solution on a number line.

$13 > 18 + r$

A	$r > -5$ 	**C**	$r < -5$ 
B	$r > -5$ 	**D**	$r < -5$ 

Question	18	السؤال

Find the inverse of the function:

$$f(x) = \frac{3x+5}{4}$$

A	$f^{-1}(x) = \frac{4x-5}{3}$	**C**	$f^{-1}(x) = \frac{x-5}{3}$
B	$f^{-1}(x) = \frac{3x-5}{4}$	**D**	$f^{-1}(x) = \frac{4x+5}{3}$

Question	18	السؤال

Find the inverse of the function:

$$f(x) = -16 + \frac{2}{5}x$$

A	$f^{-1}(x) = \frac{5}{2}x + 40$	**C**	$f^{-1}(x) = \frac{2}{5}x + \frac{32}{5}$
B	$f^{-1}(x) = \frac{5}{2}x - 40$	**D**	$f^{-1}(x) = \frac{2}{5}x - \frac{32}{5}$

Question	19	السؤال

Write an equation in slope-intercept form of the line that passes through **(–2, –3) and (4, 5).**

A	$y = \frac{4}{3}x - \frac{1}{3}$	**C**	$y = \frac{3}{4}x - 2$
B	$y = \frac{4}{3}x + \frac{1}{3}$	**D**	$y = \frac{3}{4}x + 2$

Question	19	السؤال

Write an equation in slope-intercept form of the line that passes through **(–3, 0) and (1, –6).**

A	$y = -\frac{3}{2}x - \frac{9}{2}$	**C**	$y = -\frac{3}{2}x - 6$
B	$y = -\frac{3}{2}x + \frac{9}{2}$	**D**	$y = -\frac{3}{2}x - 2$

Question	20	السؤال

Consider the inequality:

The opposite of a number divided by two minus seventeen is less than seven.

Translate the sentence into an inequality and solve it.

A	**Inequality:** $\frac{-x}{2} - 17 < 7;$ **Answer:** $x > -48$	**C**	**Inequality:** $\frac{x}{2} - 17 < 7;$ **Answer:** $x < 48$
B	**Inequality:** $\frac{-x}{2} - 17 > 7;$ **Answer:** $x < -48$	**D**	**Inequality:** $\frac{x}{2} - 17 > 7;$ **Answer:** $x > 48$

Question	20	السؤال

Select the solution set for:

$$2(x-3) < 3(2x+2)$$

A	$x < -3$	**C**	$x < 3$
B	$x > -3$	**D**	$x > 3$

Part 2	الجزء 2
Show all your work when answering these question.	يجب كتابة خطوات الحل التفصيلية للمفردات الاختبارية كافة.

Question	21	السؤال

Solve each equation and state whether the equation has one solution, no solution, or is an identity.

a) $-6y-3 = 3-6y$

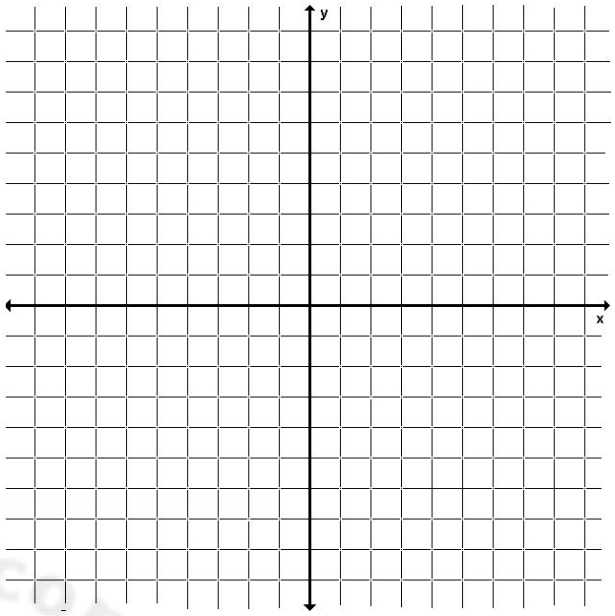
b) $8q+12 = 4(3+2q)$

c) $4x + \frac{1}{4} = 3x$

Question	22	السؤال

Graph the equation by using the x-and y-intercepts.

$$5 - y = -3x$$



Question	23	السؤال

The volume of a box V is given by the formula V = lwh, where ℓ is the length, w is the width, and h is the height.

a) Solve the formula for h.

b) What is the height of a box with a volume of 50 cubic meters, length of 10 meters, and width of 2 meters?

Question	24	السؤال

Determine whether the graphs of each pair of equations are parallel, perpendicular, or neither.

a) $y = 4x + 3$

$4x + y = 3$

b) $y = -2x$

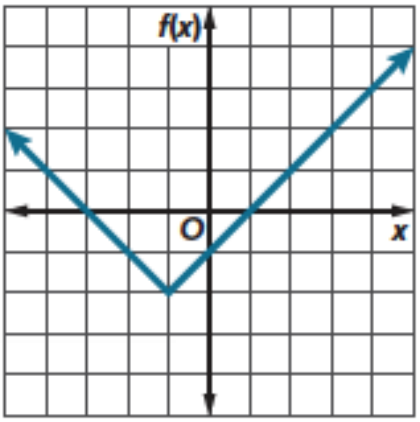
$2x + y = 3$

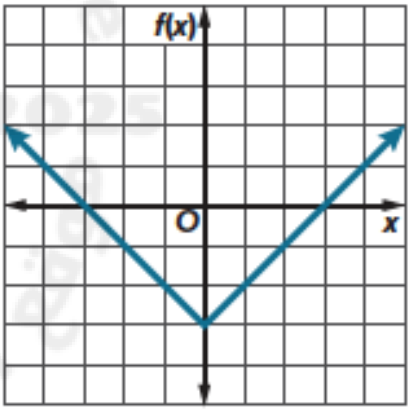
c) $3x + 5y = 10$

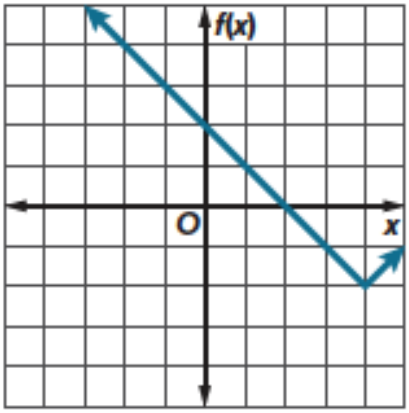
$5x - 3y = -6$

Question	25	السؤال

Use the graph of the function to write its equation.







Question	26	السؤال

Solve each inequality. Then graph the solution set.

a) $|4p + 2| \geq 10$

b) $|-2c - 3| > -4$

End of Questions انتهت الأسئلة