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ملزمة أسئلة مراجعة وفق الهيكل الوزاري منهج ريفيل

موقع المناهج ← المناهج الإماراتية ← الصف التاسع المتقدم ← رياضيات ← الفصل الأول ← ملفات متنوعة ← الملف

تاريخ إضافة الملف على موقع المناهج: 00:23:15 2024-11-04

ملفات اكتب للمعلم اكتب للطالب الاختبارات الكترونية | اختبارات | حلول | عروض بوربوينت | أوراق عمل
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المزيد من مادة
رياضيات:

إعداد: Dsouza Daryl Justin

التواصل الاجتماعي بحسب الصف التاسع المتقدم



الرياضيات



اللغة الانجليزية



اللغة العربية



التربية الاسلامية



المواد على تلغرام

صفحة المناهج
الإماراتية على
فيسبوك

المزيد من الملفات بحسب الصف التاسع المتقدم والمادة رياضيات في الفصل الأول

حل تجميعية أسئلة وفق الهيكل الوزاري منهج بريدج

1

الهيكل الوزاري الجديد المسار المتقدم منهج بريدج

2

الهيكل الوزاري الجديد المسار المتقدم منهج ريفيل

3

التوزيع الزمني الخطة الفصلية للمقرر منهج ريفيل

4

الدروس المقررة في المادة منهج بريدج

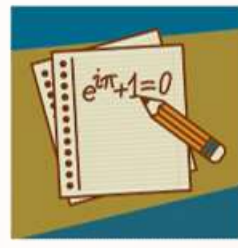
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G9 Adv Term I (2024-25)

End of Term (EoT) Questions

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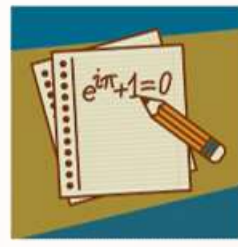




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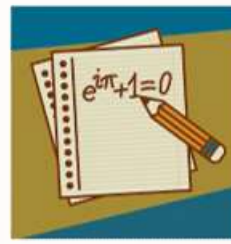




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G9 Adv Term I

Part 1: MCQ & Part 2 FRQ

EoT I 2024-25

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Number of MCQ عدد الأسئلة الموضوعية	15	Question* السؤال*	Learning Outcome/Performance Criteria** ناتج التعلم / معايير الأداء**	Reference(s) in the Student Book (English Version) المرجع في كتاب الطالب (النسخة الانجليزية)	
				Example/Exercise مثال/تمرين	Page الصفحة
Marks of MCQ درجة الأسئلة الموضوعية	4	1	Solving Multi-Step Equations	(27-35)	89
Number of FRQ عدد الأسئلة المقالية	6	2	Solving Equations Involving Absolute Value	(11-18)	105
Marks per FRQ الدرجات للأسئلة المقالية	(4-10)	3	Rate of Change and Slope	(1-4)	225
Type of All Questions نوع كافة الأسئلة	MCQ/ الأسئلة الموضوعية FRQ/ الأسئلة المقالية	4	Slope-Intercept Form	check (A-F)	233
Maximum Overall Grade الدرجة القصوى الممكنة	100	5	Solve proportions.	(12-26)	113
Exam Duration - مدة الامتحان	150 minutes	6	Graphing Linear Functions	(20-25)	217
Mode of Implementation - طريقة التطبيق	Paper-Based	7	Transformations of Linear Functions	(1-6)	247
Calculator	Allowed مسموحة				



Question*	Learning Outcome/Performance Criteria**	Reference(s) in the Student Book (English Version)	
		المرجع في كتاب الطالب (النسخة الانجليزية)	
السؤال*	نتائج التعلم / معايير الأداء**	Example/Exercise	Page
		مثال/تمرين	الصفحة
8	Writing and Interpreting Equations	(19-26)	72
9	Writing Equations in Standard and Point-Slope Form	(21-24)	304
10	Writing Equations in Standard and Point-Slope Form	(50-52)	306
11	Inverses of Linear Functions	(16-21)	332
12	Piecewise and Step Functions	(18 a-d)	265
13	Piecewise and Step Functions	(7-12)	277
14	Solving One-Step Inequalities	(37-44)	349
15	Solving Absolute Value Inequalities	(1-8)	371



Question*	Learning Outcome/Performance Criteria**	Reference(s) in the Student Book (English Version)		
		المرجع في كتاب الطالب (النسخة الانجليزية)		
السؤال*	نتائج التعلم / معايير الأداء**	Example/Exercise	Page	
		مثال/تمرين	الصفحة	
الأسئلة المقالية - FRQ	16	Solving Equations with the Variable on Each Side	(22-24)	98
	17	Graphing Linear Functions	(1-8)	215
	18	Arithmetic Sequences	(19-22)	255
	19	Writing Equations in Slope-Intercept Form	(1-6), (11-16)	291
	20	Solving Compound Inequalities	(7-10)	363





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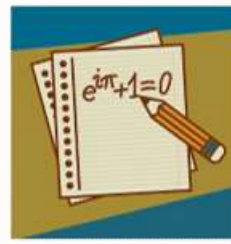
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Part I: MCQ

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Question I

Solving Multi-Step Equations

Page 89

Exercise 27 - 35

YouTube



Solve each equation. Check your solution.

27. $3x + 8 = 29$

28. $\frac{a}{6} - 5 = 9$

29. $\frac{5r}{2} - 6 = 19$



Solve each equation. Check your solution.

30. $\frac{n}{3} - 8 = -2$

31. $5 + \frac{x}{4} = 1$

32. $-\frac{h}{3} - 4 = 13$



Solve each equation. Check your solution.

33. $5(1 + n) = -5$

34. $-27 = -6 - 3p$

35. $-\frac{a}{6} + 5 = 2$





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Solve By Yourself

**Any Questions/Doubts?
Ask them in the Comments!**

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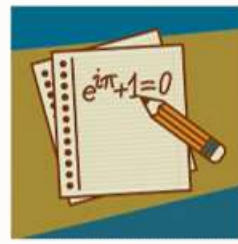
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Question 2

Solving Equations Involving Absolute Value

Page 105

Exercise 11 - 18

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Solve each equation.

11. $|7 - 2q| = 3$

12. $|4x - 2| = 26$



Solve each equation.

13. $|w + 1| = 5$

14. $|n + 2| = -1$



Solve each equation.

15. $|m - 2| = 2$

16. $|5c - 3| = 1$



Solve each equation.

17. $|2t + 6| = 4$

18. $|8k - 5| = -4$

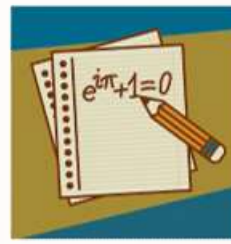




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Question 3

Rate of Change and Slope

Page 225

Exercise I - 4

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مدرسة العروبة للتعليم الثانوي

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Find the rate of change of the function by using two points from the table.

1.

x	y
5	2
10	3
15	4
20	5

2.

x	y
1	15
2	9
3	3
4	-3



3. **POPULATION DENSITY** The table shows the population density for the state of Texas in various years. Find the average annual rate of change in the population density from 2000 to 2009.

Population Density	
Year	People Per Square Mile
1930	22.1
1960	36.4
1980	54.3
2000	79.6
2009	96.7

Source: Bureau of the Census,
U.S. Dept. of Commerce



4. **BAND** In 2012, there were approximately 275 students in the Delaware High School band. In 2018, that number increased to 305. Find the annual rate of change in the number of students in the band.





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Question 4

Slope-Intercept Form

Page 233

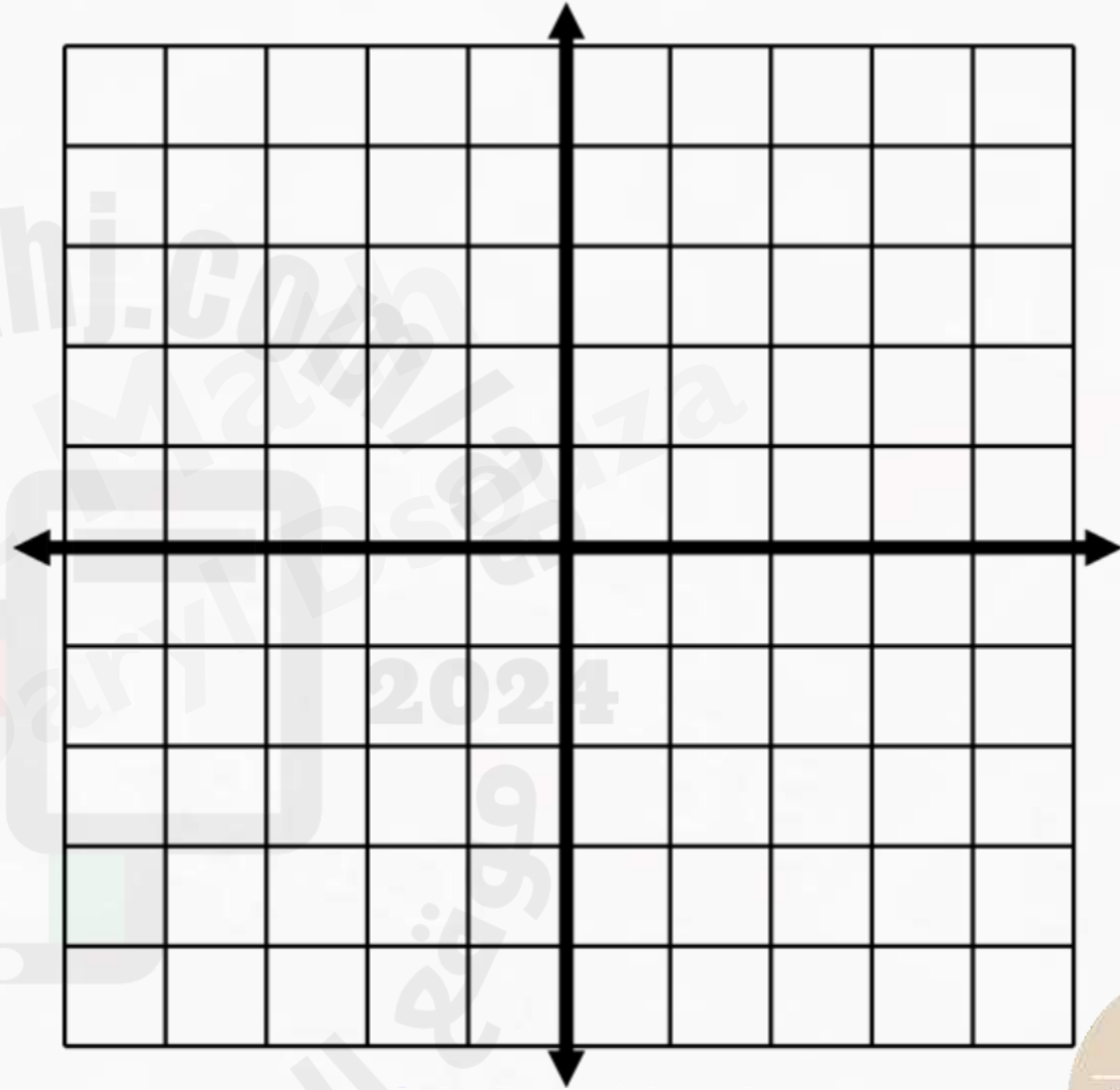
Check A - F

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Check

Graph $y = 1$.



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Match each graph with its equation.

$$y = 8$$

$$y = -4$$

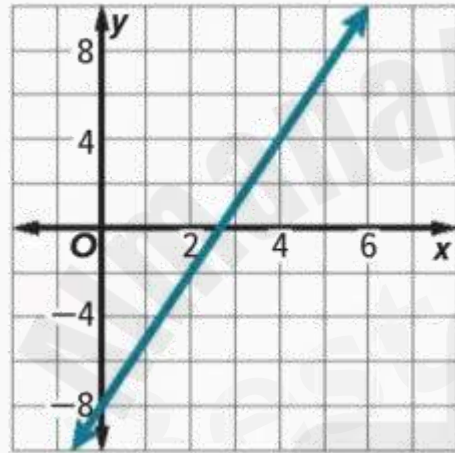
$$3x + 7y = -28$$

$$y = -3x + 8$$

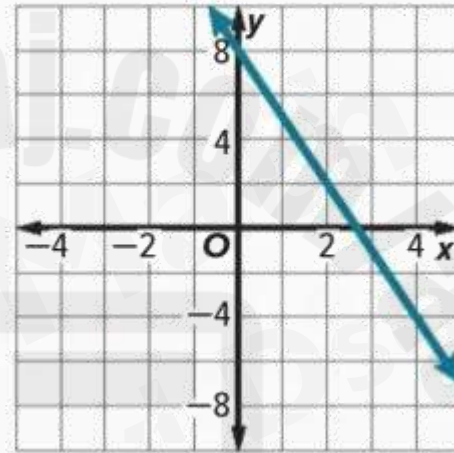
$$y = \frac{3}{7}x - 4$$

$$3x - y = 8$$

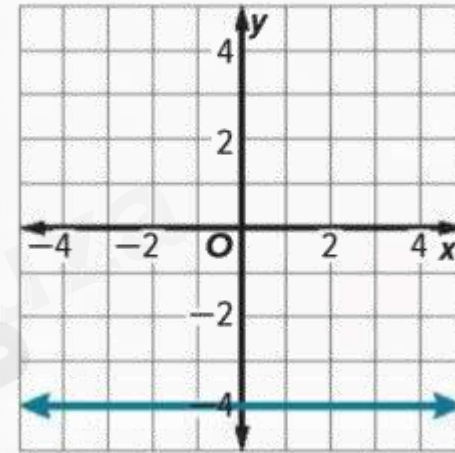
A.



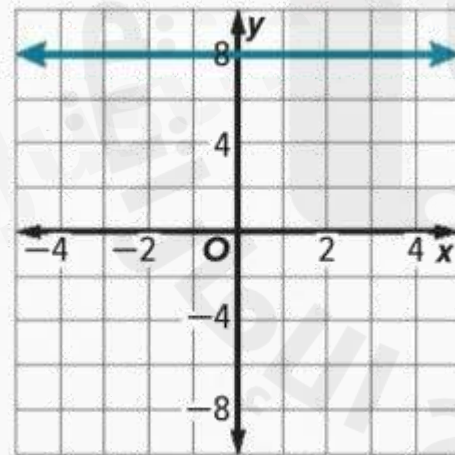
B.



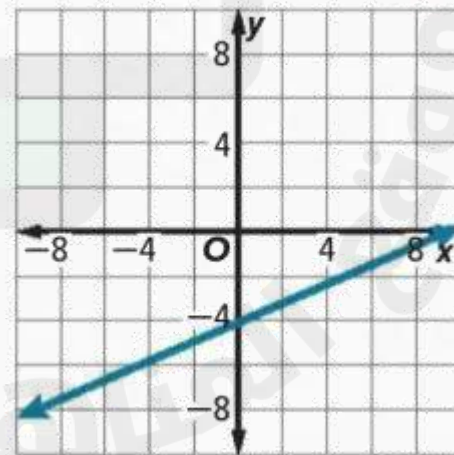
C.



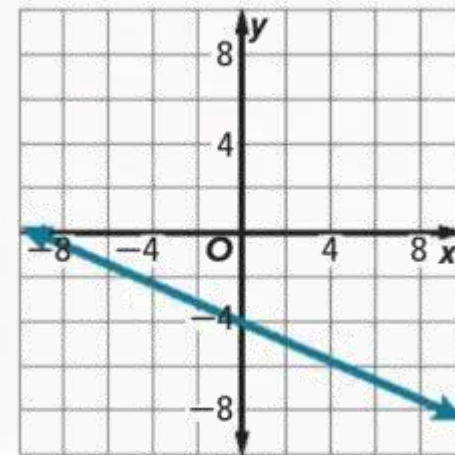
D.



E.



F.





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Question 5

Solve proportions

Page 113

Exercise 12 - 26

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Solve each proportion. If necessary, round to the nearest hundredth.

12. $\frac{7}{1.066} = \frac{z}{9.65}$

13. $\frac{x-3}{5} = \frac{6}{10}$

14. $\frac{7}{x+9} = \frac{21}{36}$

15. $\frac{10}{15} = \frac{4}{x-5}$

16. $\frac{6}{14} = \frac{7}{x-3}$

17. $\frac{7}{4} = \frac{f-4}{8}$

18. $\frac{3-y}{4} = \frac{1}{9}$



Solve each proportion. If necessary, round to the nearest hundredth.

19. $\frac{4v + 7}{15} = \frac{6v + 2}{10}$

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

21. $\frac{2n - 4}{5} = \frac{3n + 3}{10}$

22. $\frac{2}{g + 6} = \frac{4}{5g + 10}$



Solve each proportion. If necessary, round to the nearest hundredth.

$$23. \frac{x}{3} = \frac{3x + 2}{6}$$

$$24. \frac{w + 3}{7} = \frac{w - 1}{8}$$

$$25. \frac{4q - 3}{5} = \frac{2q + 1}{7}$$

$$26. \frac{5}{7k + 4} = \frac{2}{2k - 3}$$

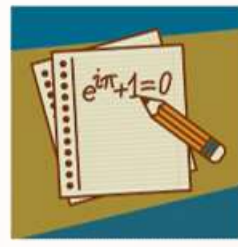




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Question 6

Graphing Linear Functions

Page 217

Exercise 20 - 25

YouTube



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Find the x -intercept and y -intercept of the graph of each equation.

20. $5x + 3y = 15$

21. $2x - 7y = 14$



Find the x -intercept and y -intercept of the graph of each equation.

22. $2x - 3y = 5$

23. $6x + 2y = 8$



Find the x -intercept and y -intercept of the graph of each equation.

24. $y = \frac{1}{4}x - 3$

25. $y = \frac{2}{3}x + 1$





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Question 7

Transformations of Linear Functions

2025

2024

Page 247

Exercise 1 - 6

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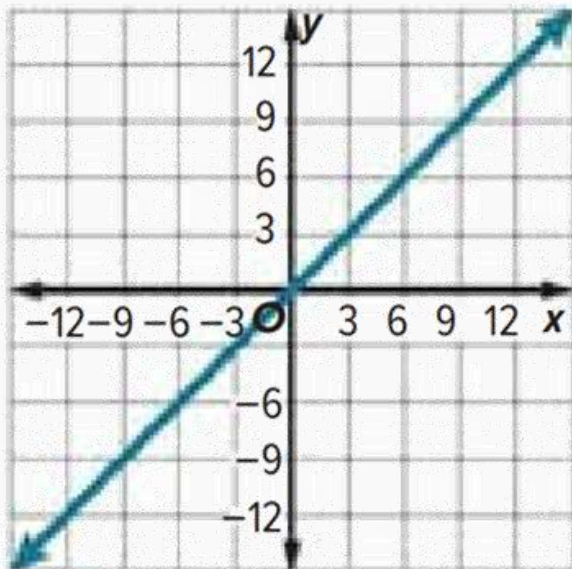
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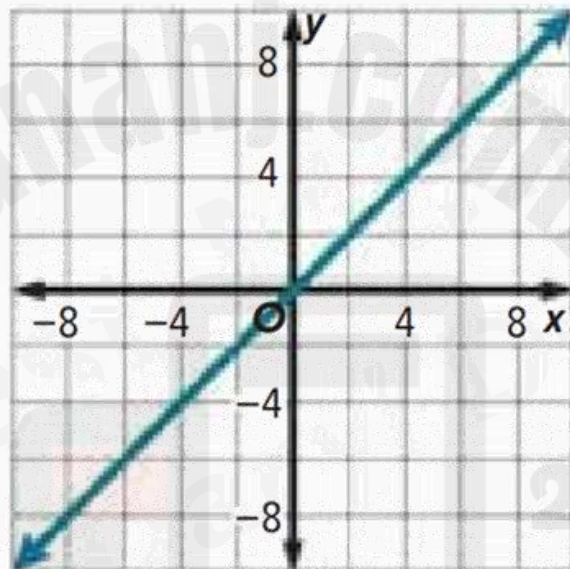
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Describe the translation in each function as it relates to the graph of the parent function.

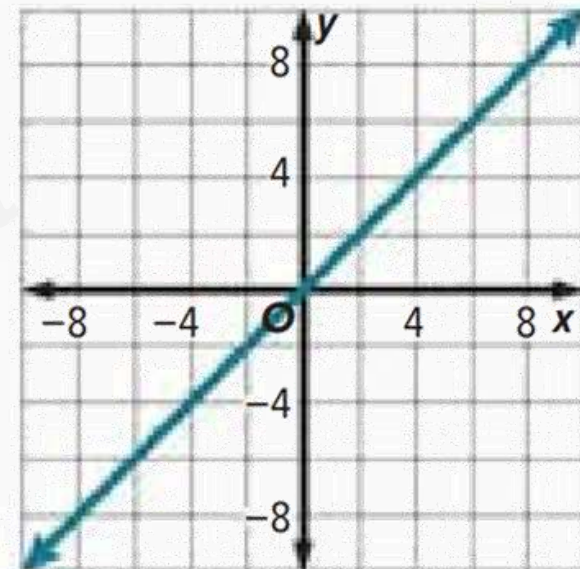
1. $g(x) = x + 11$



2. $g(x) = x - 8$

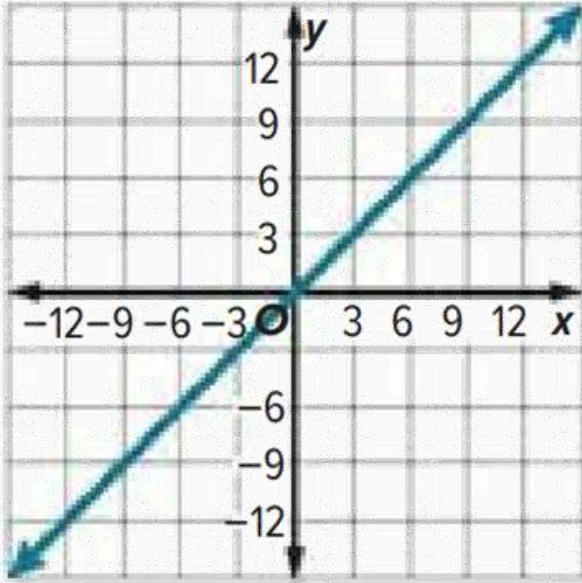


3. $g(x) = (x - 7)$

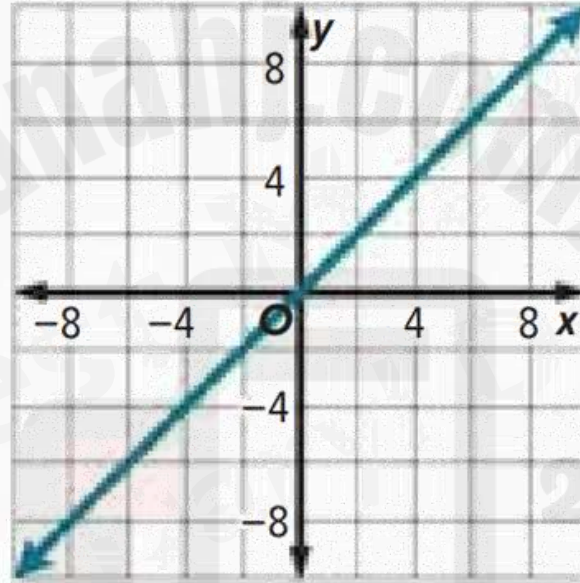


Describe the translation in each function as it relates to the graph of the parent function.

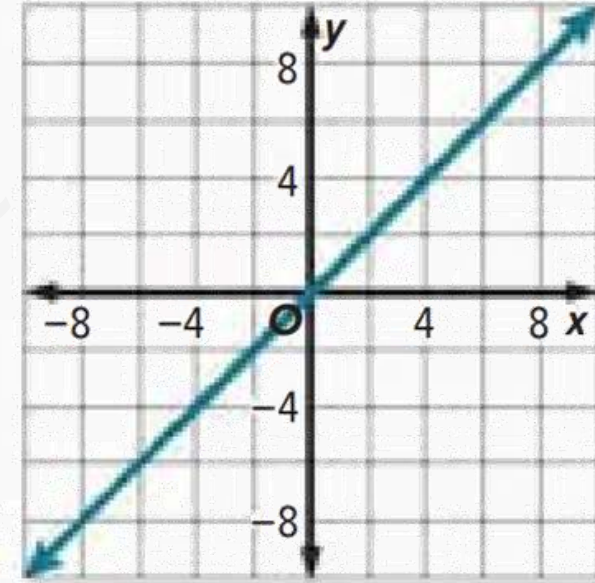
4. $g(x) = (x + 12)$



5. $g(x) = (x + 10) - 1$



6. $g(x) = (x - 9) + 5$





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Question 8

Writing and Interpreting Equations

Page 72

Exercise 19 - 26

YouTube



Write a sentence for each equation.

19. $j + 16 = 35$

20. $4m = 52$

21. $7(p + 23) = 102$

22. $r^2 - 15 = t + 19$



Write a sentence for each equation.

23. $\frac{2}{5}v + \frac{3}{4} = \frac{2}{3}x^2$

24. $\frac{1}{3} - \frac{4}{5}z = \frac{4}{3}y^3$

25. $g + 10 = 3g$

26. $2(t + 4q) = 2q + 4t$





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Question 9

Writing Equations in Standard and Point-Slope Form

Page 304

Exercise 21 - 24

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Write an equation in standard form for the line that passes through the given points.

21. $(-2, -3), (4, -7)$



Write an equation in standard form for the line that passes through the given

22. $(2, 7)$ and $(-5, 2)$



Write an equation in standard form for the line that passes through the given

23. $(-4, 9), (2, -9)$



Write an equation in standard form for the line that passes through the given

24. $(-1, 19)$ and $(3, 35)$

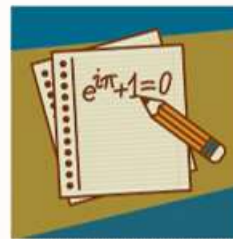




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Question 10

Writing Equations in Standard and Point-Slope Form

Page 306

Exercise 50 - 52

YouTube



50. ANALYZE Levy claims that the line through $(-6, -2)$ and $(2, 10)$ is perpendicular to the graph of $3x - 2y = 10$. Do you agree? Justify your argument.



- 51. ANALYZE** Jeremiah says the line through $(7, -10)$ and $(3, -2)$ is parallel to $2x - y = -5$. Do you agree? Justify your argument.



52. FIND THE ERROR Alonae says that the line through $(1, -4)$ and $(5, -6)$ is parallel to the line through $(2, -7)$ and $(5, -6)$. How can you tell she is mistaken without determining the slope? Explain your reasoning.





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Question I I

Inverses of Linear Functions

Page 332

Exercise 16 - 21

YouTube



Find the inverse of each function.

16. $f(x) = 8x - 5$



Find the inverse of each function.

17. $f(x) = 6(x + 7)$



Find the inverse of each function.

18. $f(x) = \frac{3}{4}x + 9$



Find the inverse of each function.

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



Find the inverse of each function.

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



Find the inverse of each function.

21. $f(x) = \frac{-4x + 1}{5}$

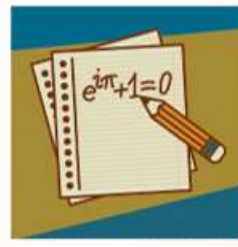




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Question 12

Piecewise and Step Functions

2025

2024

Page 265

Exercise 18 a-d

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18. STRUCTURE Suppose $f(x) = 2\llbracket x - 1 \rrbracket$.

a. Find $f(1.5)$.

b. Find $f(2.2)$.



18. STRUCTURE Suppose $f(x) = 2\llbracket x - 1 \rrbracket$.

c. Find $f(9.7)$.

d. Find $f(-1.25)$.

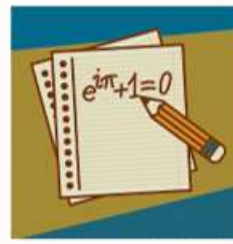




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Question 13

Piecewise and Step Functions

Page 277

Exercise 7 - 12

YouTube



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Graph each function. State the domain and range.

7. $f(x) = 3 \llbracket x \rrbracket$



Graph each function. State the domain and range.

8. $f(x) = \lceil -x \rceil$



Graph each function. State the domain and range.

9. $g(x) = -2 \llbracket x \rrbracket$



Graph each function. State the domain and range.

10. $g(x) = \llbracket x \rrbracket + 3$



Graph each function. State the domain and range.

11. $h(x) = \llbracket x \rrbracket - 1$



Graph each function. State the domain and range.

12. $h(x) = \frac{1}{2} \llbracket x \rrbracket + 1$





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Question 14

Solving One-Step Inequalities

Page 349

Exercise 37 - 44

YouTube



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

37. $\frac{1}{4}m \leq -17$

38. $\frac{1}{2}a < 20$



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

39. $-11 > -\frac{c}{11}$

40. $-2 \geq -\frac{d}{34}$



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

41. $-10 \leq \frac{x}{-2}$

42. $-72 < \frac{f}{-6}$



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

43. $\frac{2}{3}h > 14$

44. $-\frac{3}{4}j \geq 12$





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Question 15

Solving Absolute Value Inequalities

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2024

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Exercise 1 - 8

YouTube



Solve each inequality. Then graph the solution set.

1. $|x + 8| < 16$

2. $|r + 1| \leq 2$



Solve each inequality. Then graph the solution set.

3. $|2c - 1| \leq 7$

4. $|3h - 3| < 12$



Solve each inequality. Then graph the solution set.

5. $|m + 4| < -2$

6. $|w + 5| < -8$



Solve each inequality. Then graph the solution set.

7. $|r + 2| > 6$

8. $|k - 4| > 3$

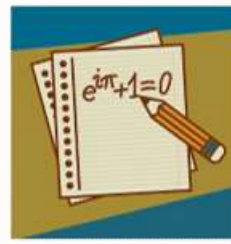




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G9 Adv Term I

Part 2: Writing (FRQ)

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Question 16

Solving Equations with the Variable on Each Side

Page 98

Exercise 22 - 24

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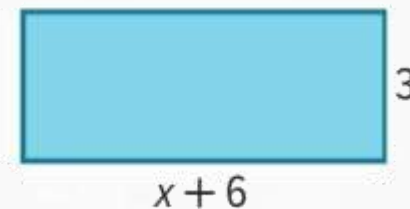
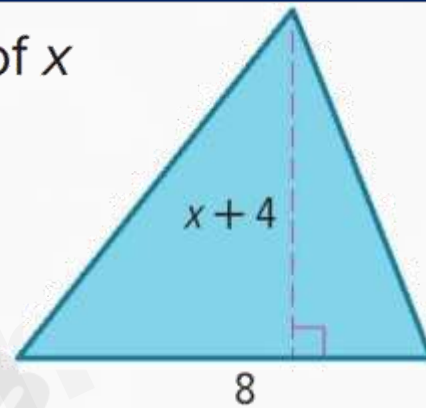


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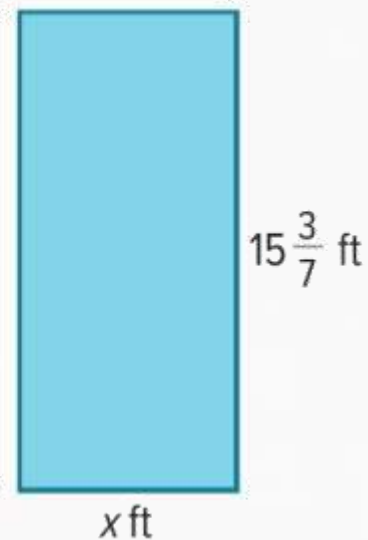
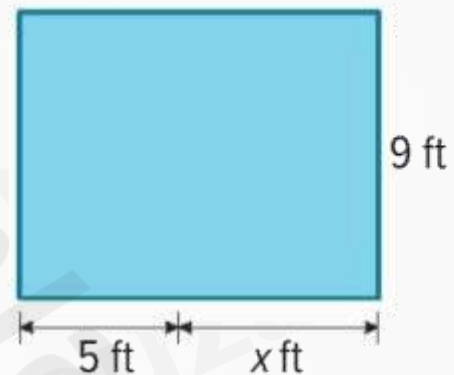
22. GEOMETRY Write and solve an equation to find the value of x so that the figures have the same area.



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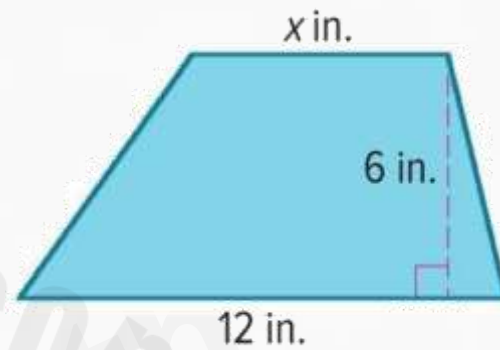


23. **GEOMETRY** Write and solve an equation to find the value of x so that the figures have the same area.



24. GEOMETRY Write and solve an equation to find the value of x so that the figures have the same area.

The area of a trapezoid is $\frac{1}{2}h(b_1 + b_2)$.



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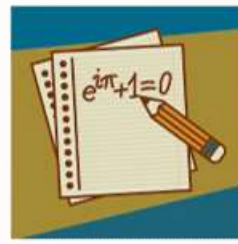




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Question 17

Graphing Linear Functions

Page 215

Exercise 1 - 8

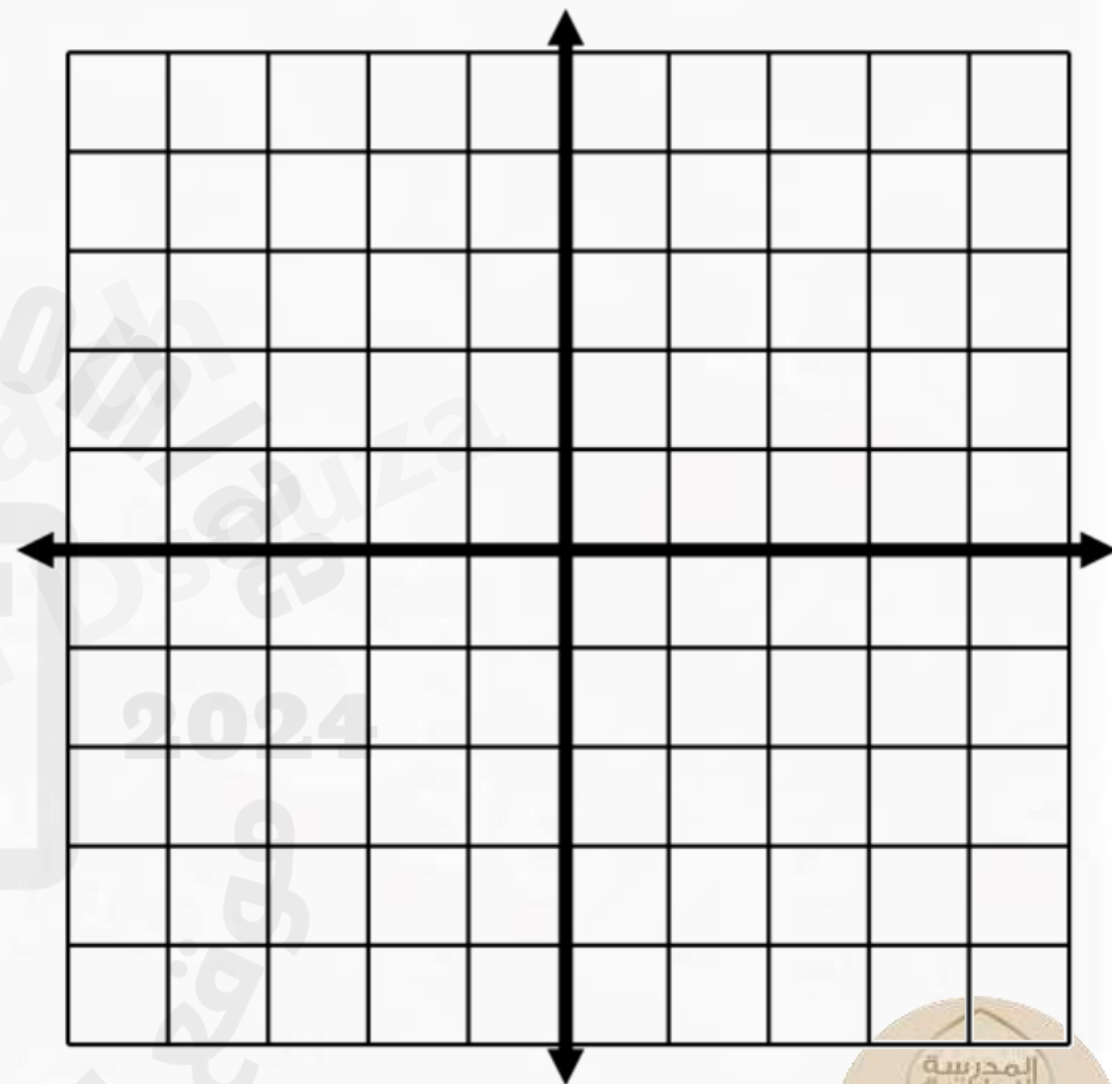
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Graph each equation by making a table.

1. $x = -2$

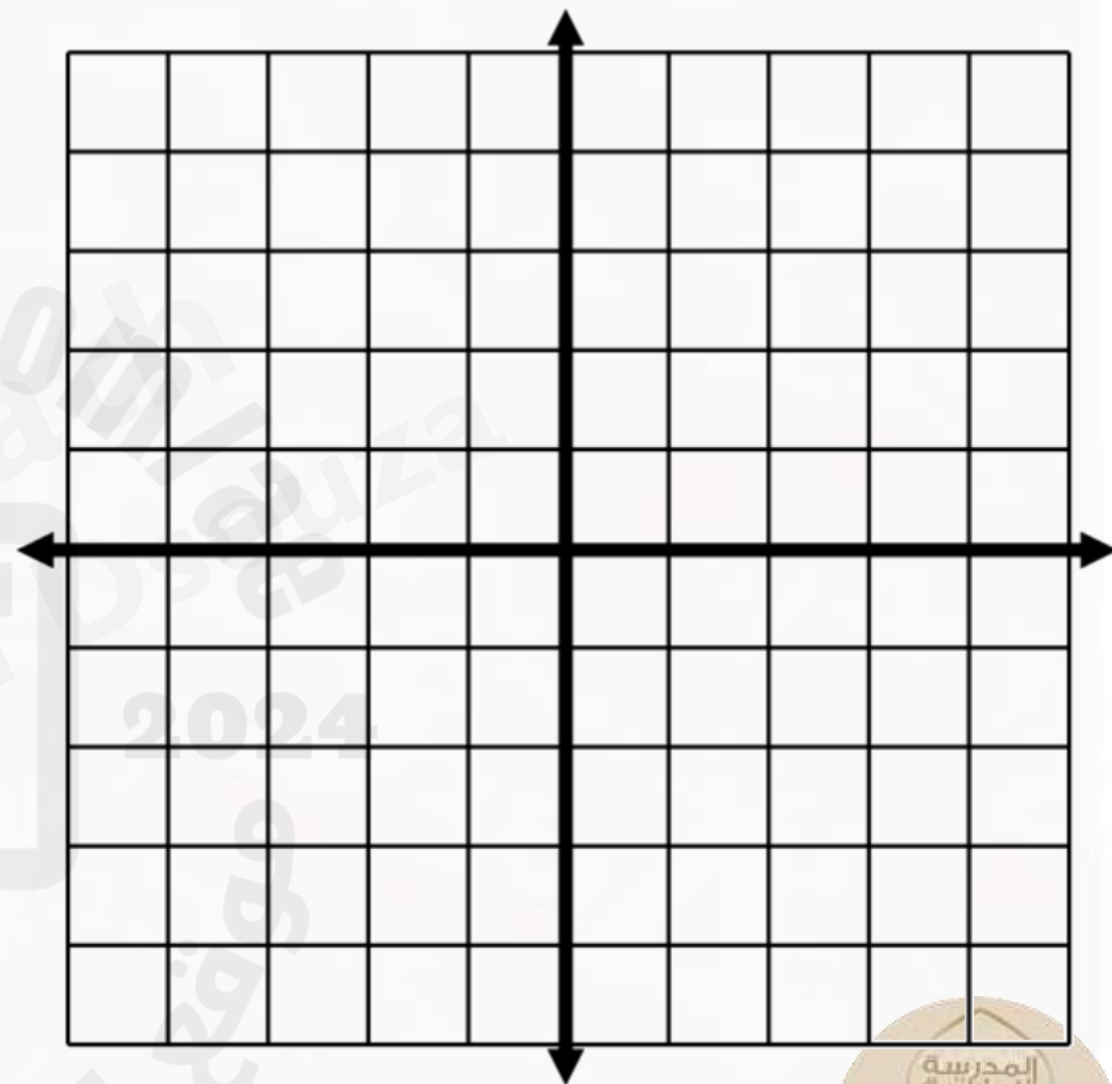


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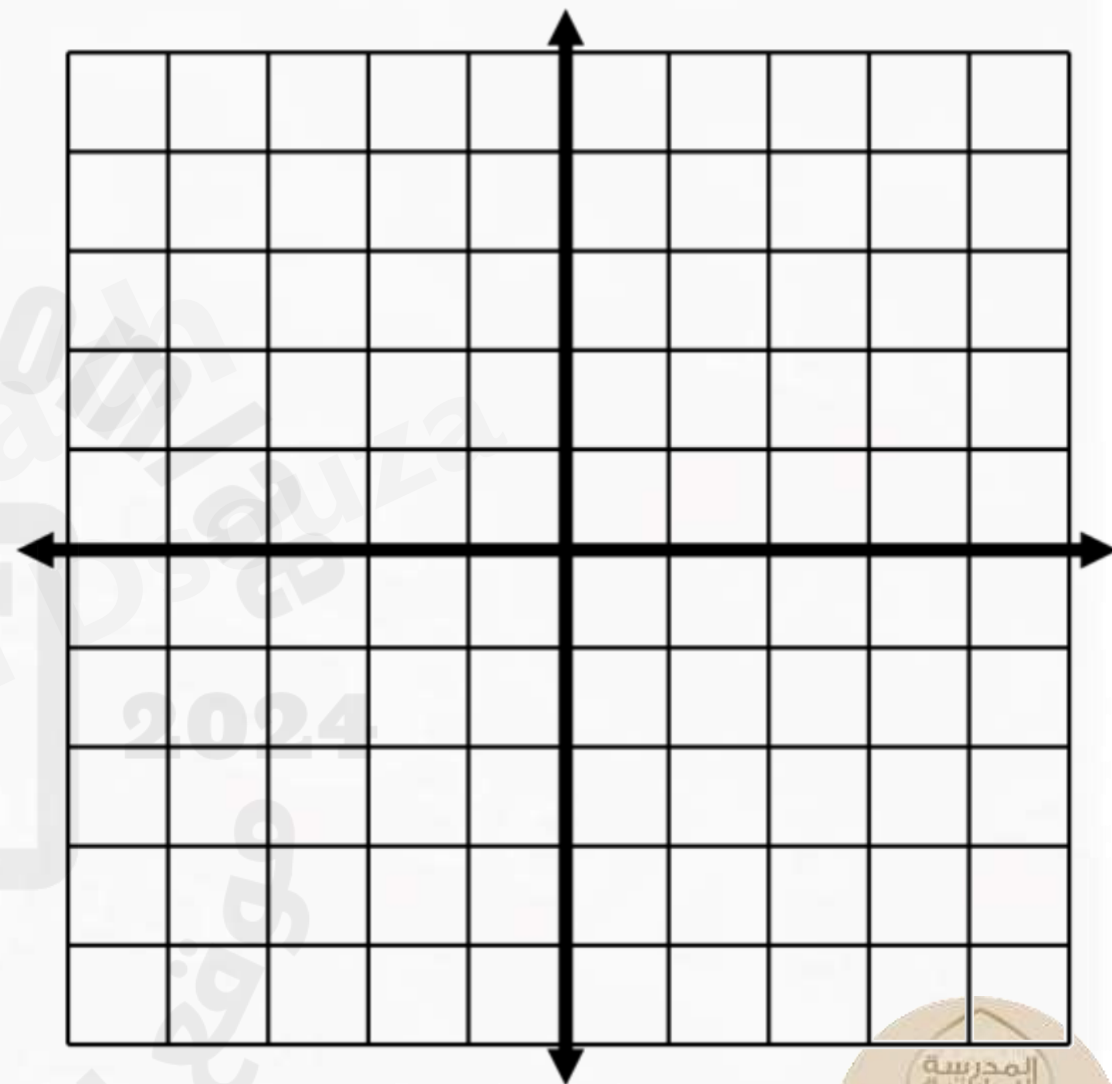
Graph each equation by making a table.

2. $y = -4$



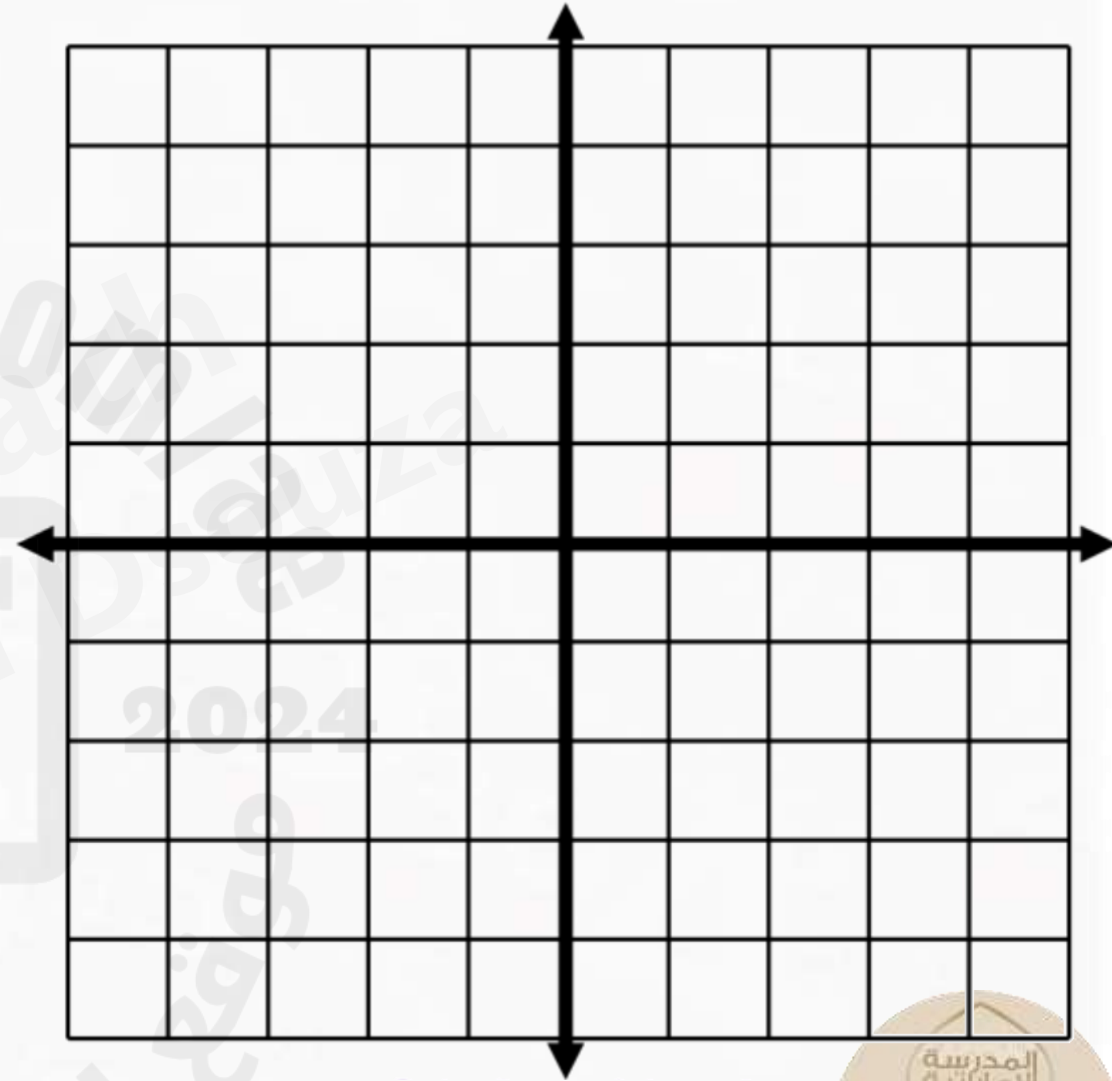
Graph each equation by making a table.

3. $y = -8x$



Graph each equation by making a table.

4. $3x = y$

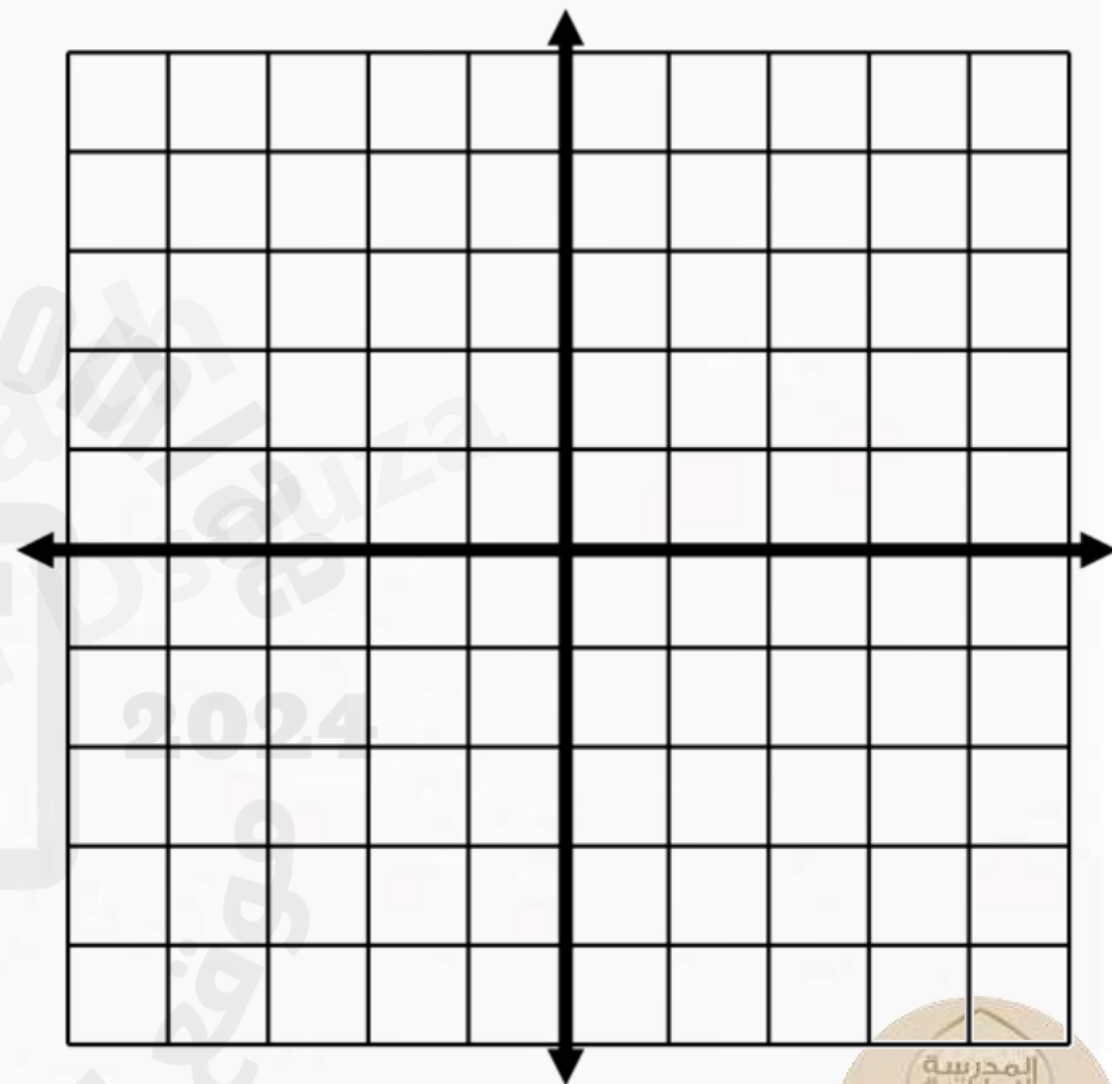


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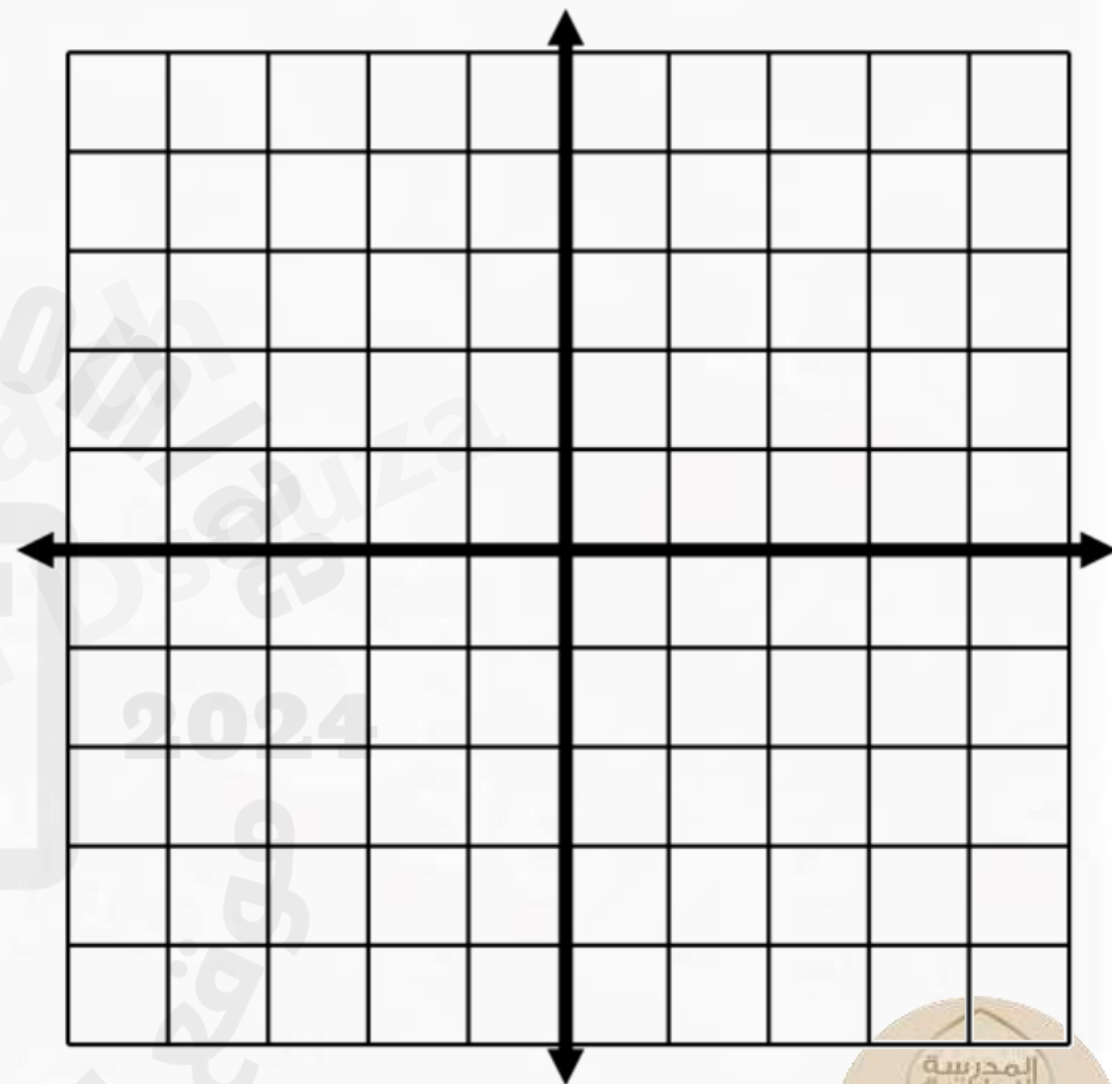
Graph each equation by making a table.

5. $y - 8 = -x$



Graph each equation by making a table.

6. $x = 10 - y$

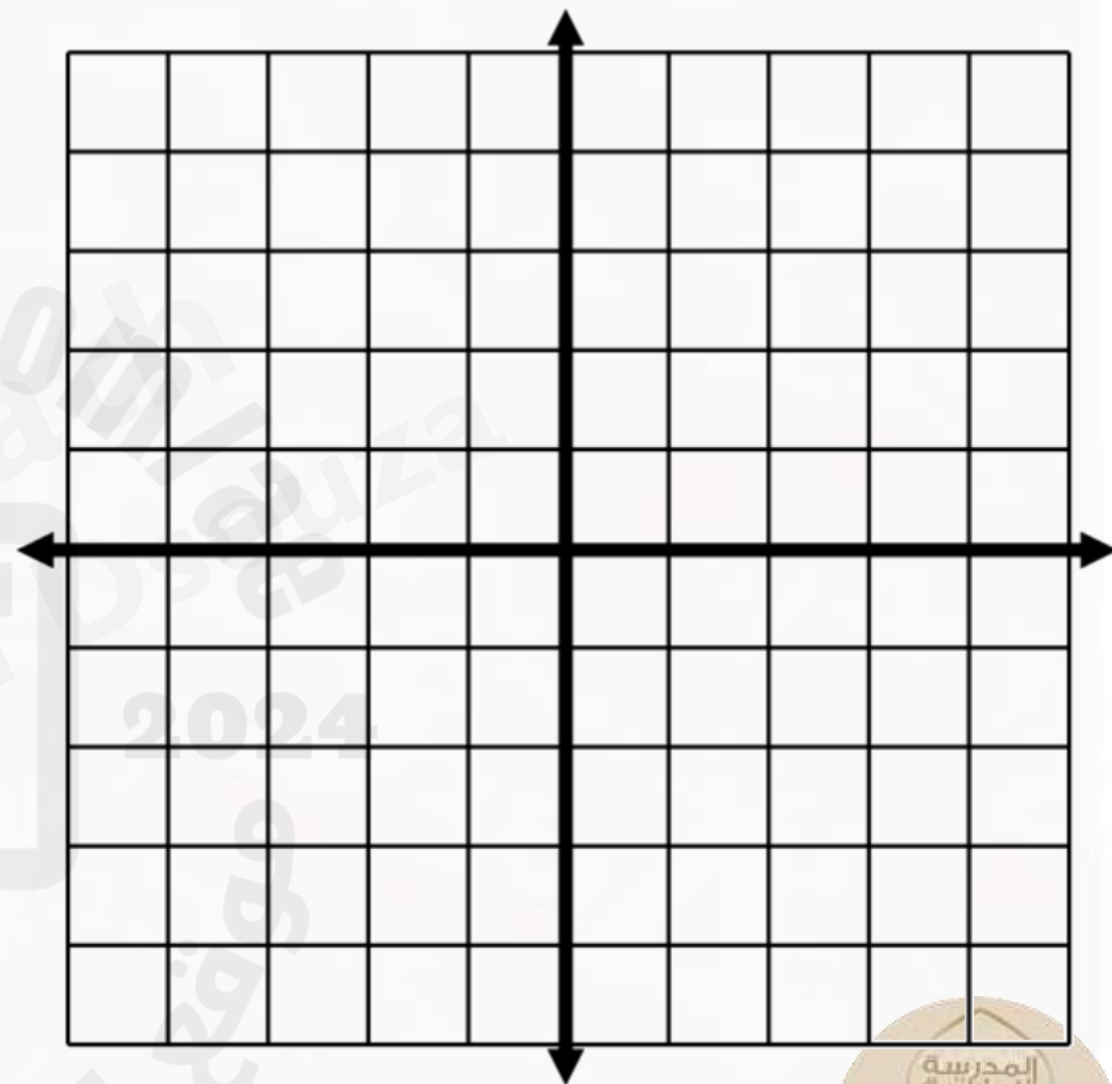


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Graph each equation by making a table.

7. $y = \frac{1}{2}x + 1$

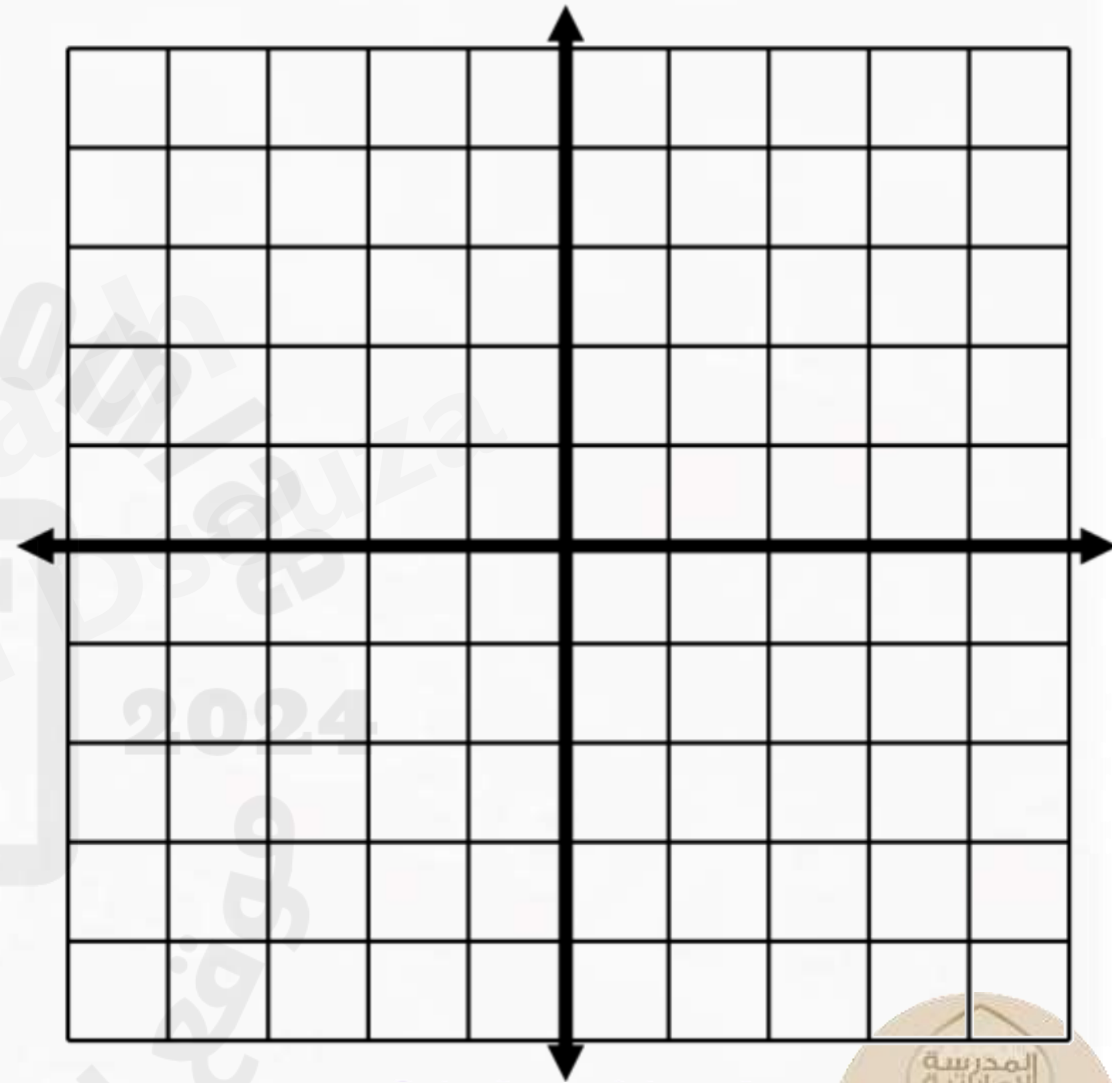


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Graph each equation by making a table.

8. $y + 2 = \frac{1}{4}x$

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Question 18

Arithmetic Sequences

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Page 255

Exercise 19 - 22

YouTube



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Use the given arithmetic sequence to write an equation and then find the 7th term of the sequence.

19. $-3, -8, -13, -18, \dots$

20. $-2, 3, 8, 13, \dots$



Use the given arithmetic sequence to write an equation and then find the 7th term of the sequence.

21. $-11, -15, -19, -23, \dots$

22. $-0.75, -0.5, -0.25, 0, \dots$

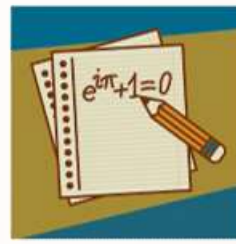




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Question 19

Writing Equations in Slope-Intercept Form

Page 291

Exercise 1 - 6 & 11 - 16

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Write an equation of the line that passes through the given point and has the given slope.

1. $(4, 2)$; slope $\frac{1}{2}$



Write an equation of the line that passes through the given point and has the given slope.

2. $(3, -2)$; slope $\frac{1}{3}$



Write an equation of the line that passes through the given point and has the given slope.

3. $(6, 4)$; slope $-\frac{3}{4}$



Write an equation of the line that passes through the given point and has the given slope.

4. $(-5, 4)$; slope -3



Write an equation of the line that passes through the given point and has the given slope.

5. $(4, 3)$; slope $\frac{1}{2}$



Write an equation of the line that passes through the given point and has the given slope.

6. $(1, -5)$; slope $-\frac{3}{2}$



Write an equation of the line that passes through each pair of points.

11. $(0, -4), (5, -4)$



Write an equation of the line that passes through each pair of points.

12. $(-4, -2), (4, 0)$



Write an equation of the line that passes through each pair of points.

13. $(-2, -3), (4, 5)$



Write an equation of the line that passes through each pair of points.

14. $(0, 1), (5, 3)$



Write an equation of the line that passes through each pair of points.

15. $(-3, 0)$, $(1, -6)$



Write an equation of the line that passes through each pair of points.

16. $(1, 0)$, $(5, -1)$





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Question 20

Solving Compound Inequalities

Page 363

Exercise 7 - 10



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Solve each compound inequality. Then graph the solution set.

7. $5h - 4 \geq 6$ and $7h + 11 < 32$



Solve each compound inequality. Then graph the solution set.

8. $22 \geq 4m - 2$ or $5 - 3m \leq -13$



Solve each compound inequality. Then graph the solution set.

9. $-y + 5 \geq 9$ or $3y + 4 < -5$



Solve each compound inequality. Then graph the solution set.

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

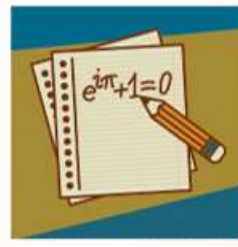




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Thank you

Any Questions/Doubts?
Ask them in the Comments!

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