شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية

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حل أسئلة امتحان وفق الهيكل الوزاري ريفيل

التواصل الاجتماعي بحسب الصف التاسع المتقدم

روابط مواد الصف التاسع المتقدم على تلغرام

التربية الاسلامية	اللغة العربية	اللغة الانجليزية	الرياضيات

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

1	الخطة الفصلية لمنهج Reveal ريفيل
2	كتاب الطالب Reveal ريفيل المجلد الأول
3	حل أسئلة الامتحان النهائي
4	بوربوينت حل أسئلة امتحانية منهج ريفيل وفق الهيكل الوزاري
5	حل أسئلة امتحان وفق الهيكل الوزاري ريفيل


رياضيات 2023
هيكل 9 متقدم ريفيل
Mr Tarek Ali
0562854282
@ELITE_REVEAL_MATH_ALLGRADES
الأستاذ/ طارق علي -0562854282
https://chat.whatsapp.com/D26wXMka8Gn45kpHLhaak0

Write an equation for each sentence.

1. Two added to three times a number m is the same as 18.

2. The product of five and the sum of a number x and three is twelve.

3. The quotient of 24 and x equals 14 minus 2 times x.

4. Nine times a number y subtracted from 85 is seven times the sum of four and y.

Solve each equation.

9. $\frac{1}{3}v = -5$

10. $\frac{u}{8} = -4$

Solve each equation.

11. $\frac{a}{6} = -9$

12. $-\frac{k}{5} = \frac{7}{5}$

Solve each equation for x. Assume $a \neq 0$.

18. $ax + 3 = 23$

19. $4 = ax - 14$

Solve each equation for x. Assume $a \neq 0$.

20. $ax - 5 = 19$

21. $6 + ax = -29$

Solve each equation for x. Assume $a \neq 0$.

22. $\frac{8}{ax} - 5 = -3$

23. $18 - ax = 42$

Solve each equation for x. Assume $a \neq 0$.

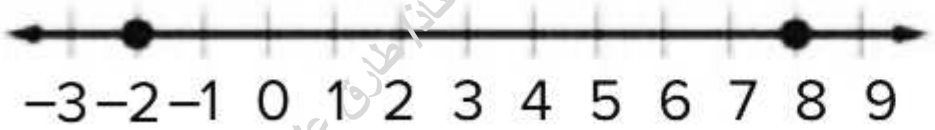
24. $5 = \frac{5}{ax} + 1$

25. $-3 = ax + 11$

26. $-7 = -ax - 16$

Solve each equation. Then graph the solution set.

1. $|n - 3| = 5$



2. $|r + 10| = 1$

Solve each equation. Then graph the solution set.

3. $|v - 2| = -5$

4. $|4t - 8| = 20$

Solve each equation. Then graph the solution set.

5. $|8w + 5| = 21$

6. $|6y - 7| = -1$

Solve each equation. Then graph the solution set.

7. $|x + 5| = -3$

8. $|-2y + 6| = 6$

Example 1 Solve a Proportion

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

$$\frac{x}{45} = \frac{15}{25}$$

Check

Solve $\frac{n-4}{8} = \frac{3}{2}$. If necessary, round to the nearest hundredth.

A. 16

B. 9.33

C. 8

D. 4.75

Example 2 Solve a Proportion with Two Missing Quantities

Solve $\frac{x}{9} = \frac{2x - 3}{24}$. If necessary, round to the nearest tenth.

Check

Solve $\frac{x}{12} = \frac{2x - 5}{18}$. If necessary, round to the nearest hundredth.

A. −10

B. −3.75

C. 0.83

D. 10

Example 3 Solve a Proportion by Using a Constant Rate

GEOGRAPHY Parts of Mexico City are sinking at a rate of 140 centimeters every 5 years. If this rate remains constant, how many centimeters will the city sink in the next 12 years?

Check

MIXTURE Oscar makes fruit punch to sell from his food truck by mixing 8 parts cranberry juice to 3 parts pineapple juice. How many cups of pineapple juice would Oscar need to mix with 48 cups of cranberry juice to make his punch? ___?___ cups

Solve each equation or formula for the variable indicated.

1. $x - 2y = 1$, for y

2. $d + 3n = 1$, for n

Solve each equation or formula for the variable indicated.

3. $7f + g = 5$, for f

4. $3c - 8d = 12$, for c

Solve each equation or formula for the variable indicated.

5. $7t = x$, for t

6. $r = wp$, for p

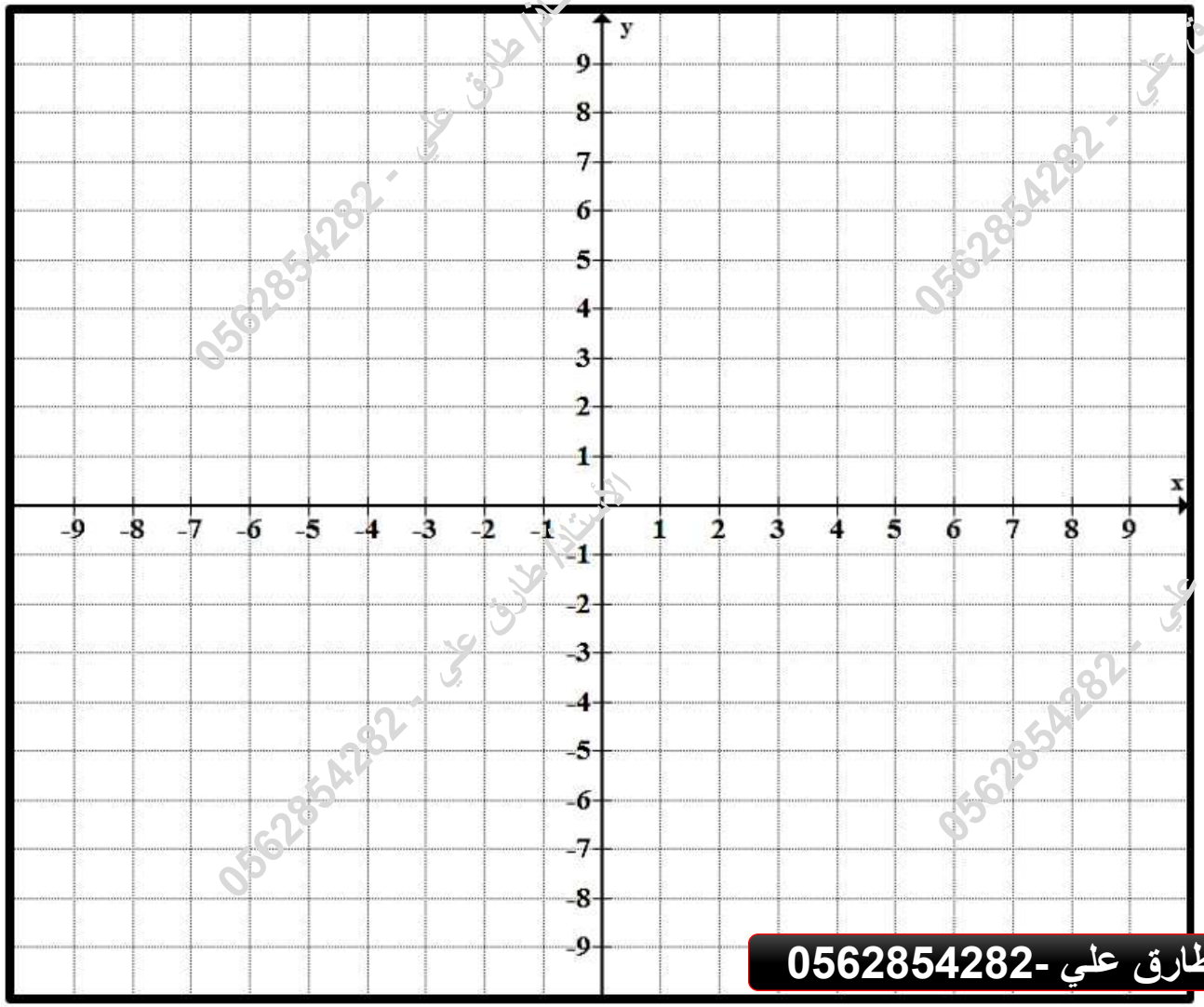
Solve each equation or formula for the variable indicated.

7. $q - r = r$, for r

8. $4m - t = m$, for m

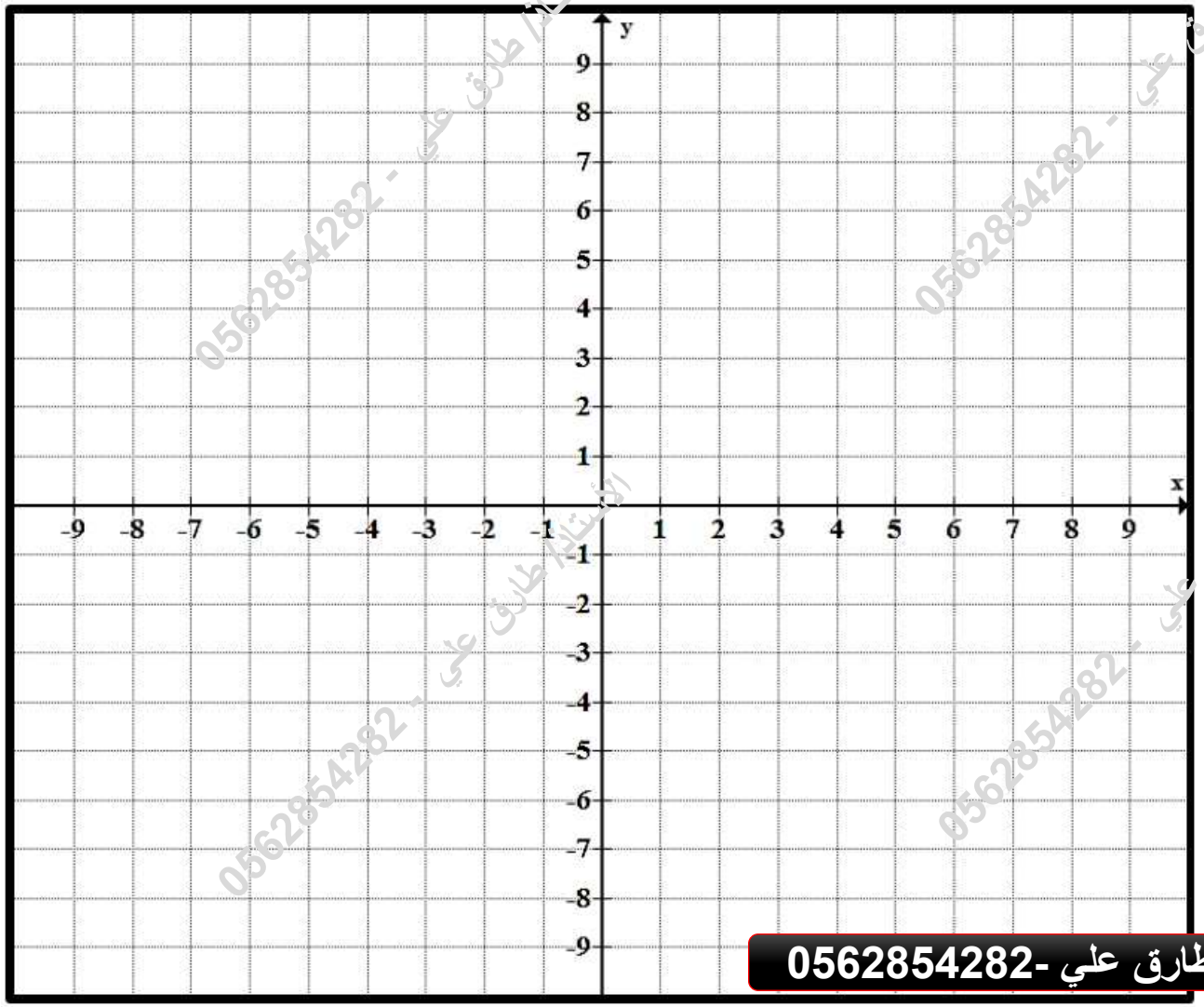
Graph each equation by making a table.

5. $y - 8 = -x$



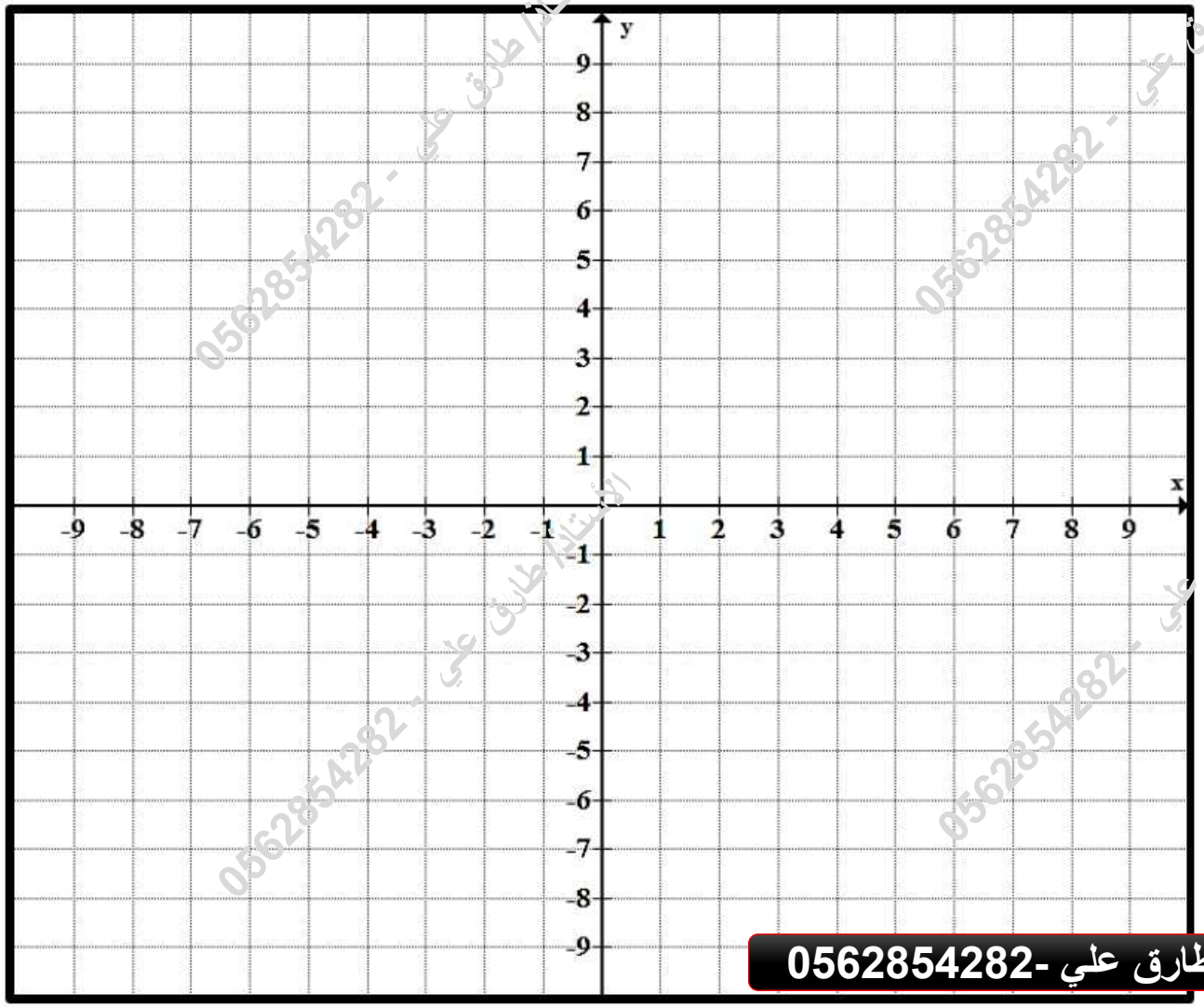
Graph each equation by making a table.

6. $x = 10 - y$



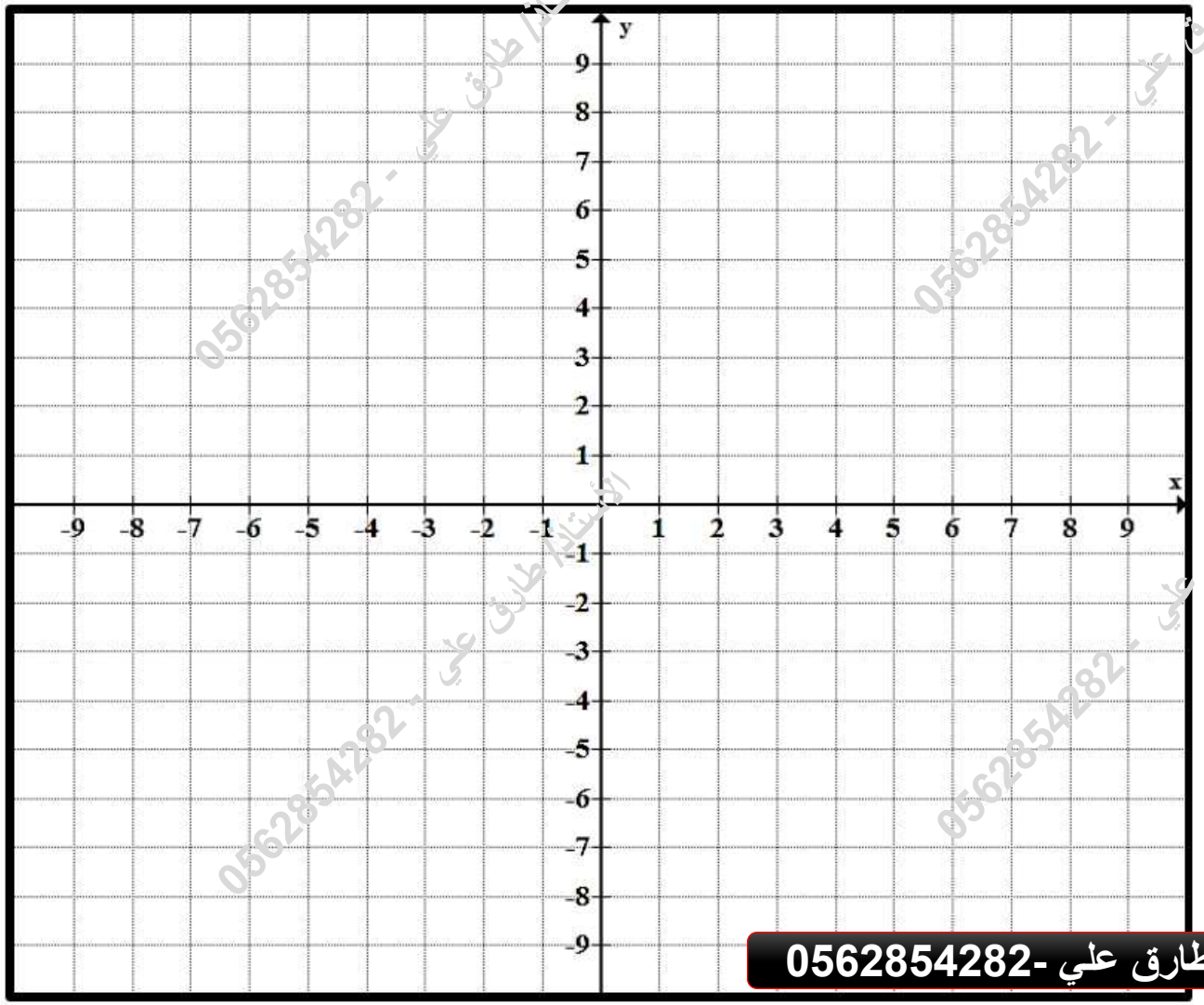
Graph each equation by making a table.

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



Graph each equation by making a table.

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



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

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

Write each equation in slope-intercept form.

9. $-10x + 2y = 12$

10. $4y + 12x = 16$

Write each equation in slope-intercept form.

11. $-5x + 15y = -30$

12. $6x - 3y = -18$

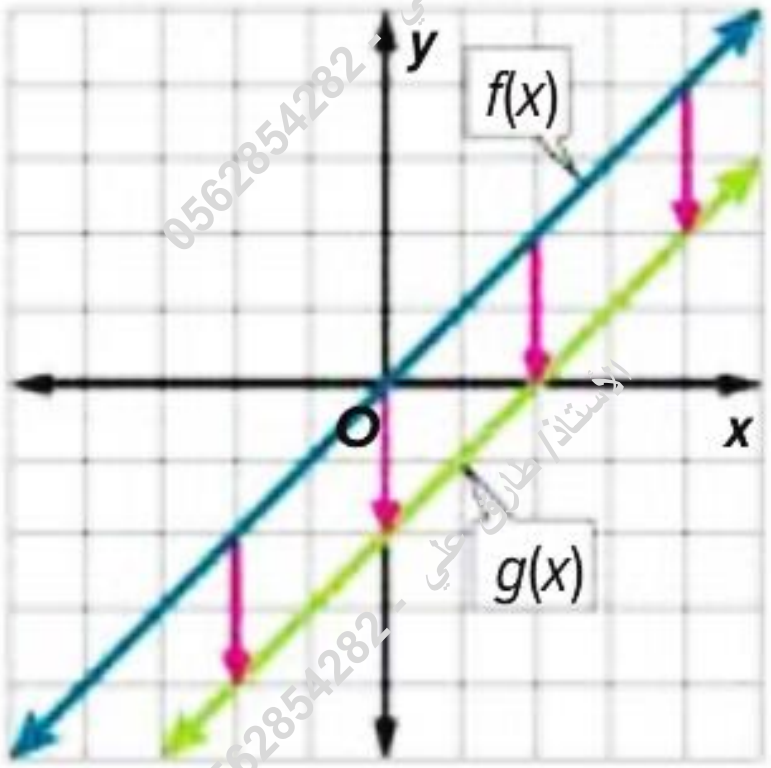
Write each equation in slope-intercept form.

13. $-2x - 8y = 24$

14. $-4x - 10y = -7$

Example 1 Vertical Translations of Linear Functions

Describe the translation in $g(x) = x - 2$ as it relates to the graph of the parent function.

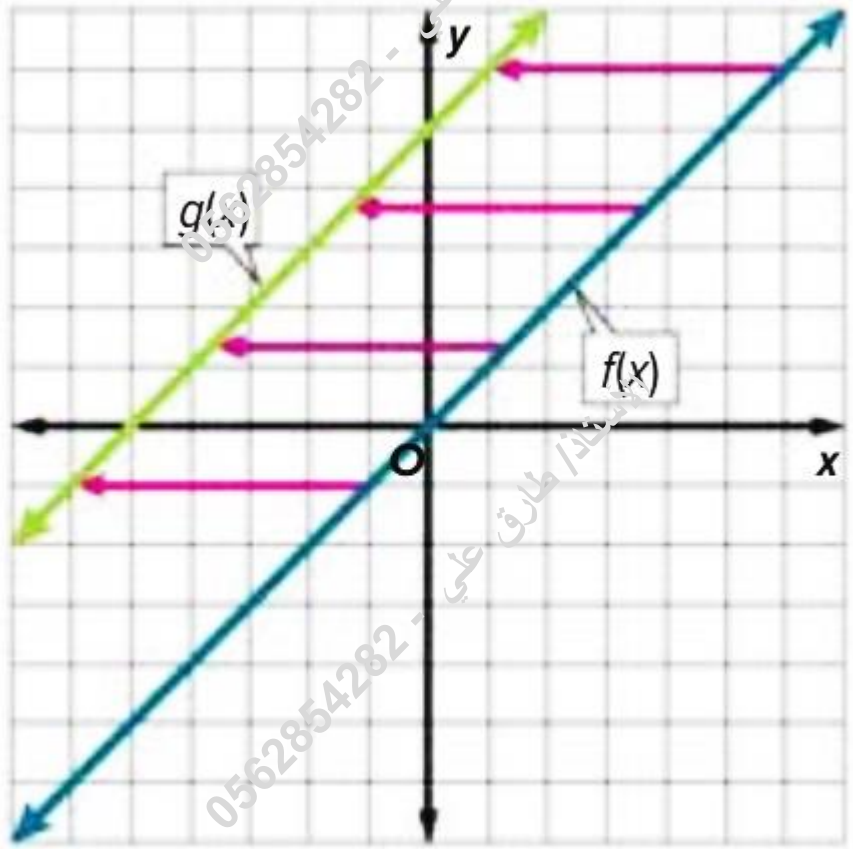


Check

Describe the translation in $g(x) = x - 1$ as it relates to the graph of the parent function.

Example 2 Horizontal Translations of Linear Functions

Describe the translation in $g(x) = (x + 5)$ as it relates to the graph of the parent function.

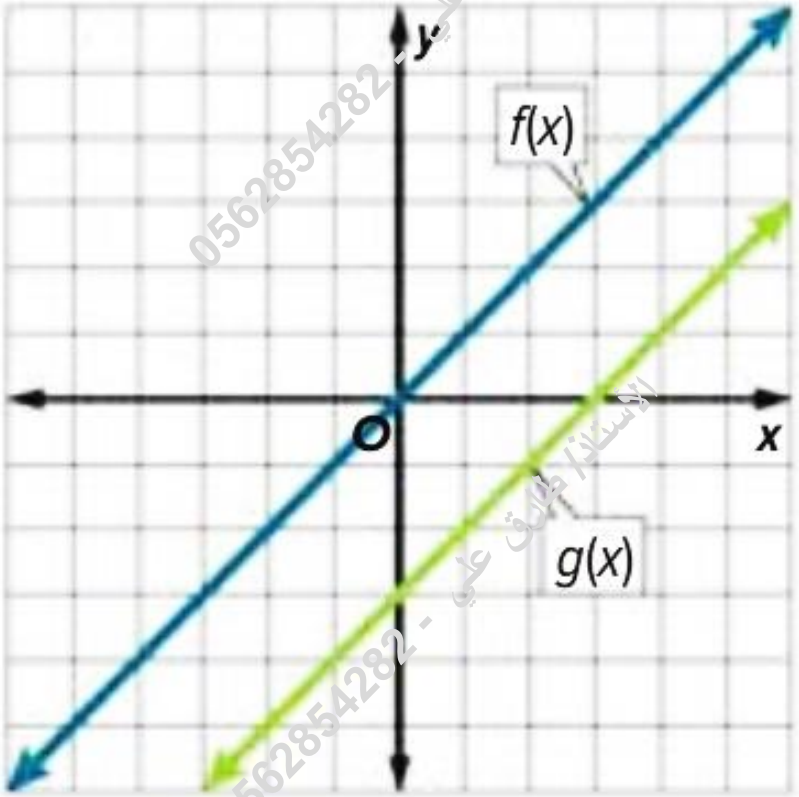


Check

Describe the translation in $g(x) = (x + 12)$ as it relates to the graph of the parent function.

Example 3 Multiple Translations of Linear Functions

Describe the translation in $g(x) = (x - 6) + 3$ as it relates to the graph of the parent function.



Find the common difference of each arithmetic sequence. Then find the next three terms.

9. 0.02, 1.08, 2.14, 3.2, ...

10. 6, 12, 18, 24, ...

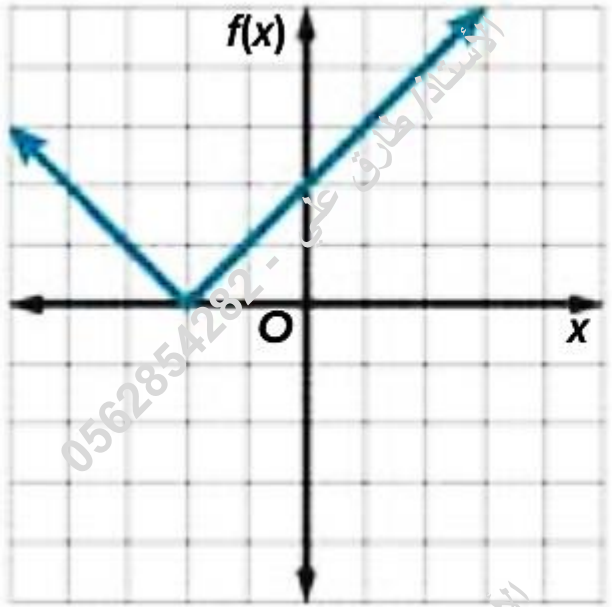
Find the common difference of each arithmetic sequence. Then find the next three terms.

11. 21, 19, 17, 15, ...

12. $-\frac{1}{2}, 0, \frac{1}{2}, 1, \ldots$

Use the graph of the function to write its equation.

7.



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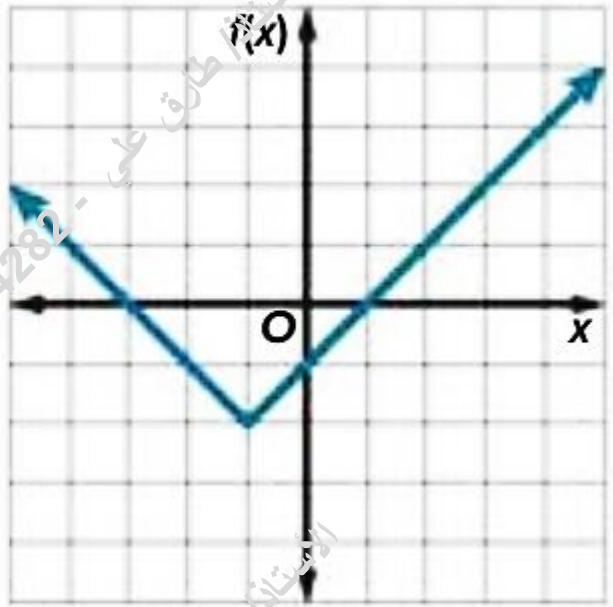
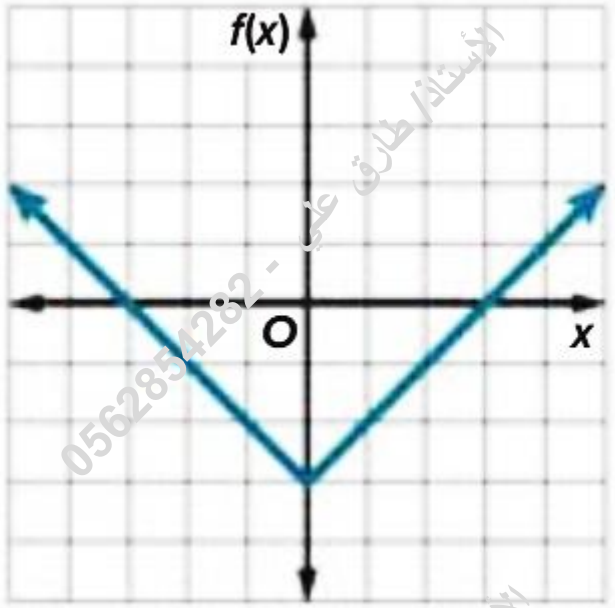


Use the graph of the function to write its equation.

9.



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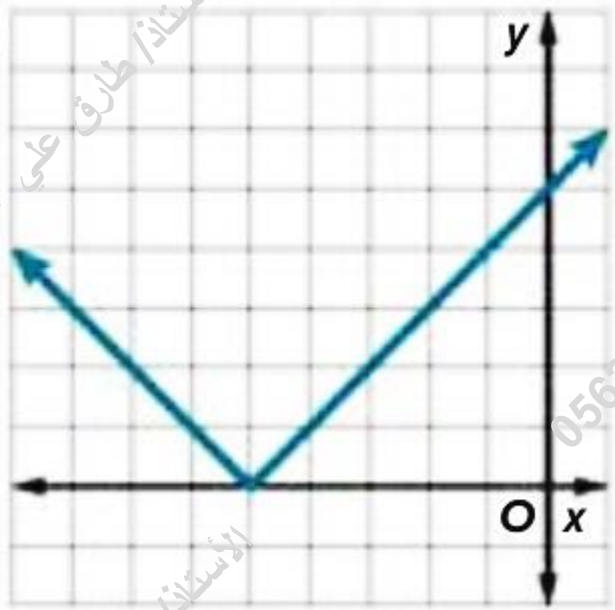
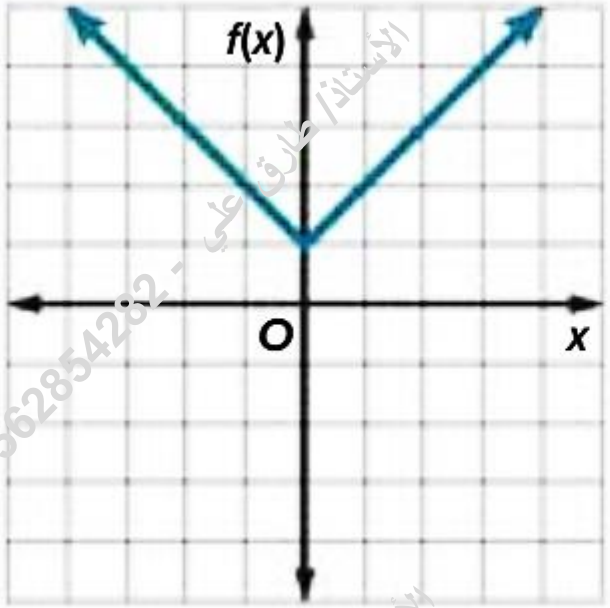


Use the graph of the function to write its equation.

11.



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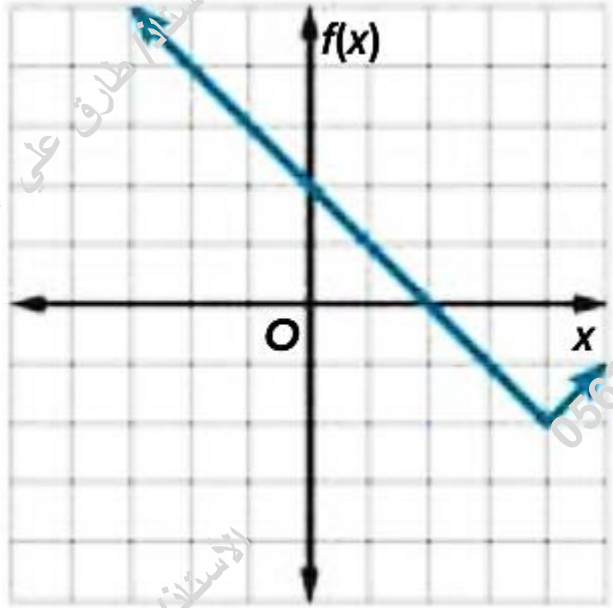


Write an equation of the line that passes through the given point and has the given slope.

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

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 $-\frac{3}{4}$

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 $\frac{1}{2}$

6. (1, −5); slope $-\frac{3}{2}$

Write an equation in slope-intercept form for the line that passes through the given point and is parallel to the graph of the equation. Then write an equation for the line that passes through the given point and is perpendicular to the graph of the equation.

25. $(3, -2); y = x + 4$

Write an equation in slope-intercept form for the line that passes through the given point and is parallel to the graph of the equation. Then write an equation for the line that passes through the given point and is perpendicular to the graph of the equation.

26. $(4, -3); y = 3x - 5$

Write an equation in slope-intercept form for the line that passes through the given point and is parallel to the graph of the equation. Then write an equation for the line that passes through the given point and is perpendicular to the graph of the equation.

27. $(0, 2)$; $y = -5x + 8$

Write an equation in slope-intercept form for the line that passes through the given point and is parallel to the graph of the equation. Then write an equation for the line that passes through the given point and is perpendicular to the graph of the equation.

28. $(-4, 2)$; $y = -\frac{1}{2}x + 6$

Write an equation in slope-intercept form for the line that passes through the given point and is parallel to the graph of the equation. Then write an equation for the line that passes through the given point and is perpendicular to the graph of the equation.

29. $(-2, 3); y = -\frac{3}{4}x + 4$

Write an equation in slope-intercept form for the line that passes through the given point and is parallel to the graph of the equation. Then write an equation for the line that passes through the given point and is perpendicular to the graph of the equation.

30. $(9, 12); y = 13x - 4$

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

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

16. $-3(7n + 3) < 6n$

17. $21 \geq 3(a - 7) + 9$

Solve each inequality. Graph the solution on a number line

18. $2y + 4 > 2(3 + y)$

19. $3(2 - b) < 10 - 3(b - 6)$

Solve each inequality. Graph the solution on a number line

20. $7 + t \leq 2(t + 3) + 2$

21. $8a + 2(1 - 5a) \leq 20$

Solve each compound inequality. Then graph the solution set.

3. $y - 1 \geq 7$ or $y + 3 < -1$

Solve each compound inequality. Then graph the solution set.

4. $t + 14 \geq 15$ or $t - 9 < -10$

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.

14. $5n - 1 < -16$ or $-3n - 1 < 8$

Solve each compound inequality. Then graph the solution set.

16. $y - 5 < -4$ or $y - 5 \geq 1$

Write a compound inequality that describes each graph.

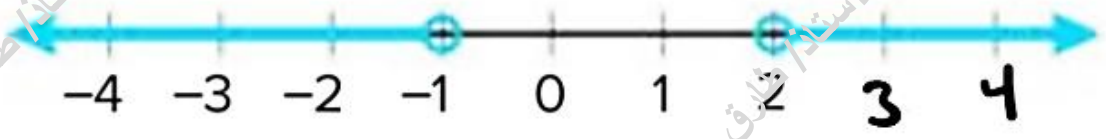
19.

20.

Write a compound inequality that describes each graph.

21.

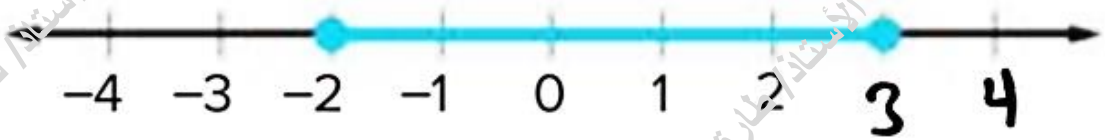
22.



Write a compound inequality that describes each graph.

23.

24.



مع امنياتي للجميع بالنجاح والتفوق

الأستاذ / طارق علي

0562854282