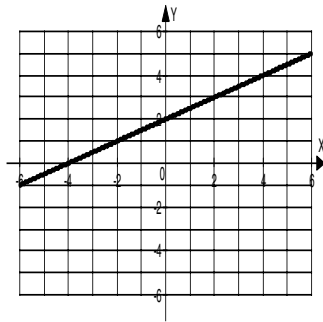


Chapter 3
Form F

1. Which of the following ordered pairs is a solution of $3x - y \geq 4$?

- a. (2, -6) b. (1, 1) c. (4, 1) d. (5, -1)

Use the graph below for problems 2 – 4.



2. Identify the x -intercept and the y -intercept of the above graph.

- a. x -intercept (2, 0)
 y -intercept (0, 4) b. x -intercept (-2, 0)
 y -intercept (0, -4)
- c. x -intercept (0, 2)
 y -intercept (4, 0) d. x -intercept (0, 2)
 y -intercept (-4, 0)

3. Calculate the slope of the line of the above graph.

- a. 2 b. -2 c. $-\frac{1}{2}$ d. $\frac{1}{2}$

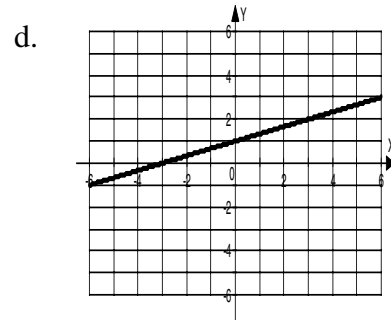
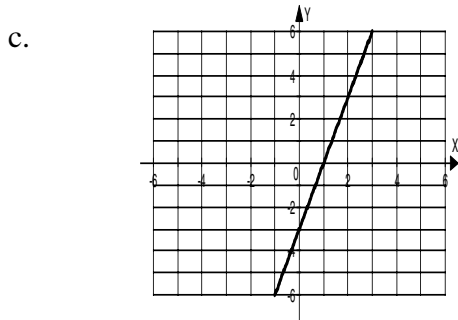
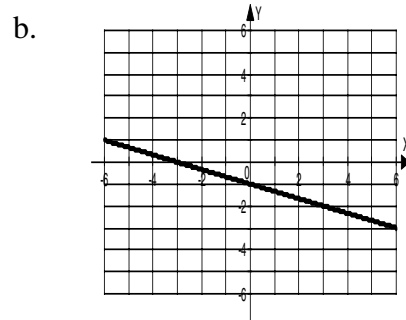
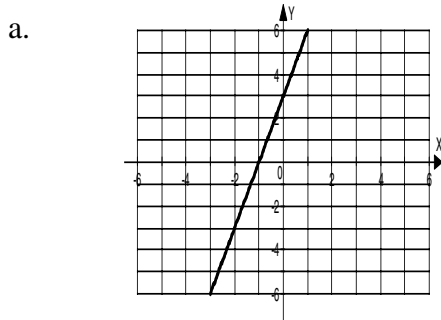
4. Write the equation of the line shown in the above graph in slope-intercept form.

- a. $y = -\frac{1}{2}x + 2$ b. $y = \frac{1}{2}x + 2$ c. $y = 2x + 2$ d. $y = -2x + 2$

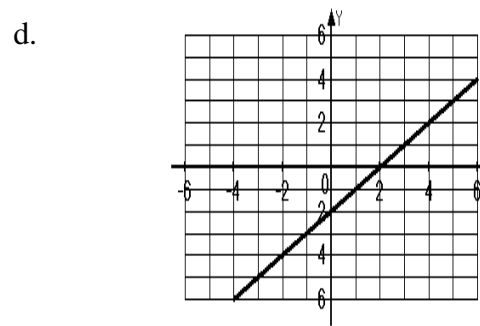
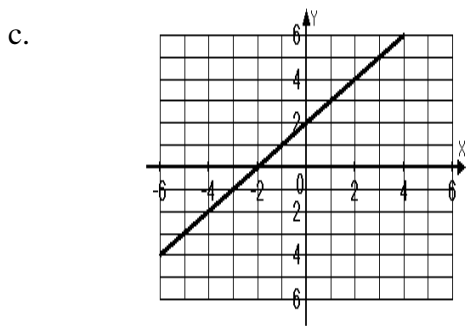
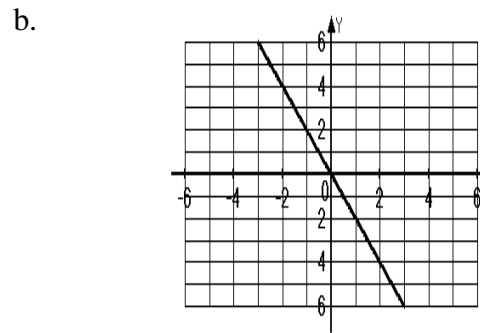
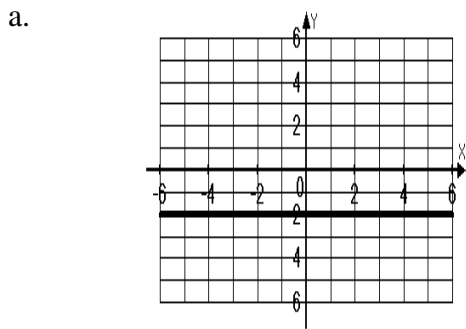
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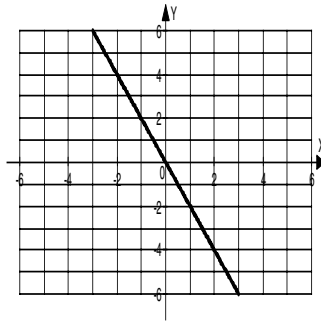
5. Graph the equation $4x + 3y = 12$.



6. Graph the equation $y = x - 2$



Use the graph shown below for problems 7 – 8.



7. Identify the x - intercept and the y - intercept of the above graph.

a. x - intercept (0, 0)
 y - intercept none

b. x - intercept (0, 0)
 y - intercept (0, 0)

c. x - intercept none
 y - intercept (0, 0)

d. x - intercept none
 y - intercept none

8. Calculate the slope of the line in the above graph.

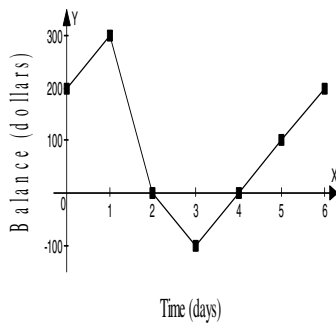
a. -2

b. $-\frac{1}{2}$

c. 2

d. Undefined

The following graph shows the balance in a bank account (y , in dollars) x days after the account was opened.



Use the graph for problems 9 –10.

9. What is the meaning of the y –intercept?

a. On day 2 and 4, the balance was \$0.
 c. The initial withdrawal was \$200.

b. The initial deposit was \$200.
 d. The initial deposit was \$0.

10. Where is the minimum and what does it represent?
- $(0, 300)$ On day 1, the balance was \$300.
 - $(2, 0)$ and $(4, 0)$ On day 2 and 4, the balance was \$0.
 - $(3, -100)$ On day 3, the account was \$100 overdrawn.
 - $(6, 200)$ On day 6, the balance was \$200
11. For the equation $2x - 5y = 7$, find the x and y - intercept.

a. x -intercept $\left(\frac{7}{2}, 0\right)$

y -intercept $\left(0, -\frac{7}{5}\right)$

c. x - intercept $\left(0, \frac{5}{7}\right)$

y intercept $\left(\frac{2}{7}, 0\right)$

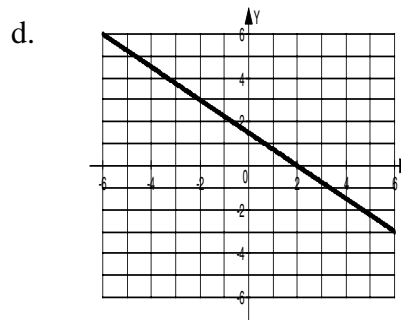
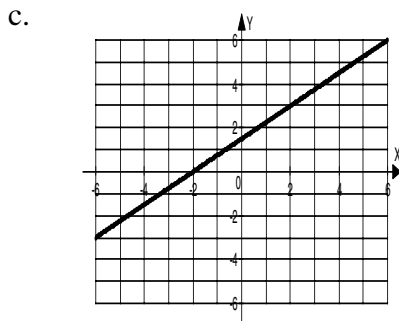
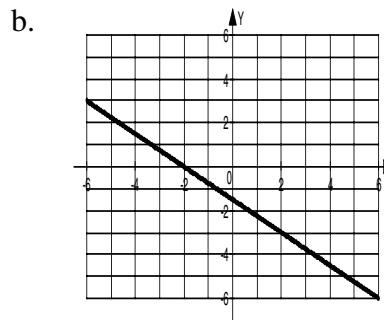
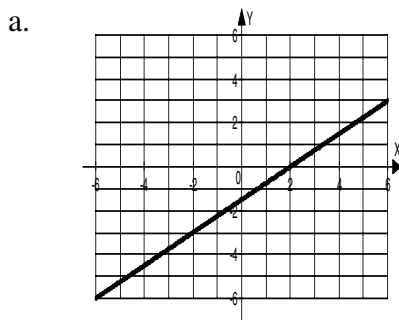
b. x -intercept $\left(\frac{7}{5}, 0\right)$

y intercept $\left(0, \frac{7}{2}\right)$

d. x -intercept $\left(\frac{5}{7}, 0\right)$

y intercept $\left(0, \frac{2}{7}\right)$

12. Graph the equation $3x - 4y = 6$.

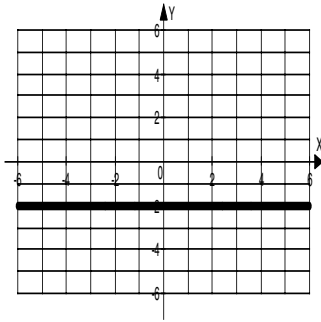


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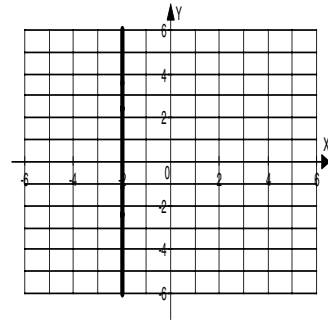
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13. Graph the equation $y = 2$.

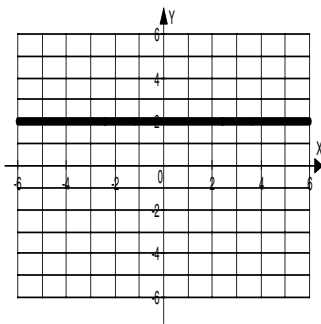
a.



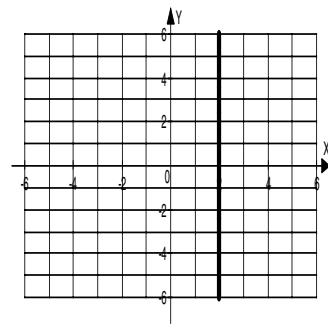
b.



c.

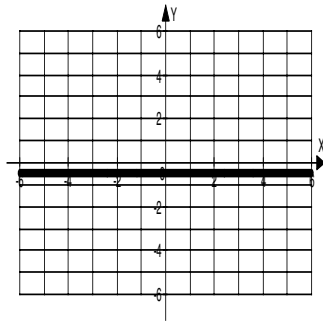


d.

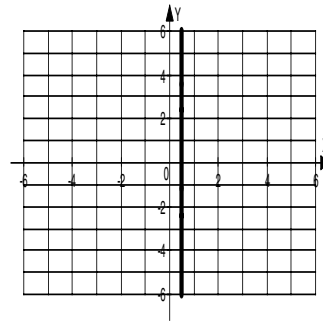


14. Graph the equation $x = -\frac{1}{2}$.

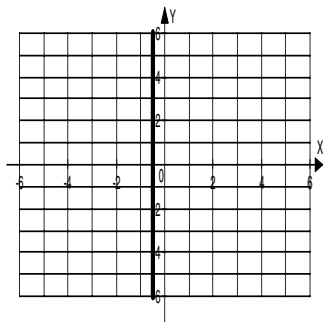
a.



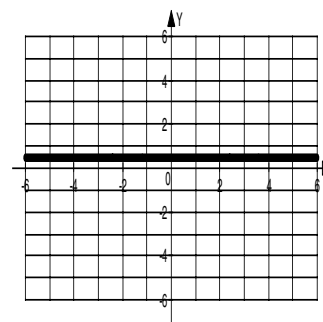
b.



c.



d.



15. Calculate the slope of the line passing through $\left(2, \frac{1}{3}\right)$ and $\left(-5, \frac{1}{3}\right)$.
- a. 0 b. -7 c. -3 d. Undefined
16. Are the lines $4x - 2y = 6$ and $-6x + 3y = 8$ parallel?
- a. yes b. no
- c. Not enough information d. They are the same line.
17. For the equation $8x - 12y = 24$, find the slope and y-intercept.
- a. slope $\frac{2}{3}$; y- intercept (0, 2) b. slope $-\frac{2}{3}$; y-intercept (0, 2)
- c. slope $\frac{2}{3}$; y- intercept (0, -2) d. slope $-\frac{2}{3}$; y- intercept (0, -2)
18. Write the point-slope form of the equation of the line passing through $(-7, 3)$ and $(4, -2)$.
- a. $y - 3 = -\frac{5}{11}(x - 7)$ b. $y - 3 = -\frac{5}{11}(x + 7)$
- c. $y + 3 = -\frac{1}{3}(x - 7)$ d. $y - 3 = -\frac{1}{3}(x + 7)$
19. Find the slope of a line that is parallel to the line with the equation $y = \frac{3}{5}x - 6$.
- a. $m = -6$ b. $m = -\frac{3}{5}$ c. $m = \frac{3}{5}$ d. $m = -\frac{5}{3}$
20. Find the slope of a line that is perpendicular to the line with the equation $5x + 7y = 11$.
- a. $m = -\frac{5}{7}$ b. $m = \frac{5}{7}$ c. $m = \frac{7}{5}$ d. $m = -\frac{7}{5}$