

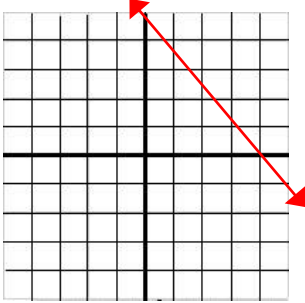
Unit 2.4 Practice Standard Form

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

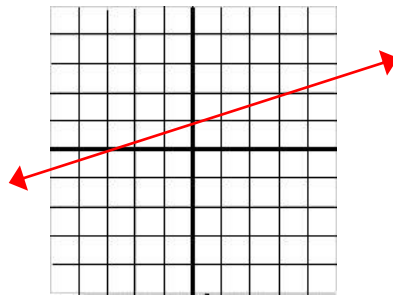
1. $x + y = 7$ x-intercept = 7, y-intercept = 7 2. $x - 3y = 9$ x-intercept = 9, y-intercept = -3
 3. $2x + 3y = -6$ x-intercept = -3, y-intercept = -2 4. $-4x - 2y = -8$ x-intercept = 2, y-intercept = 4
 5. $5x - 4y = -12$ x-intercept = $-\frac{12}{5}$, y-intercept = 3 6. $-2x + 7y = 11$ x-intercept = $-\frac{11}{2}$, y-intercept = $\frac{11}{7}$

Draw a line with the given intercepts.

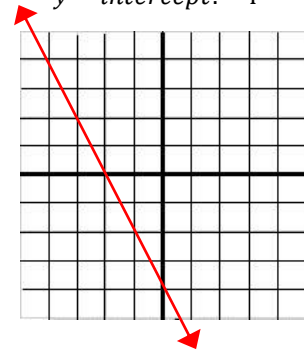
7. x-intercept: 4
 y-intercept: 5



8. x-intercept: -3
 y-intercept: 1

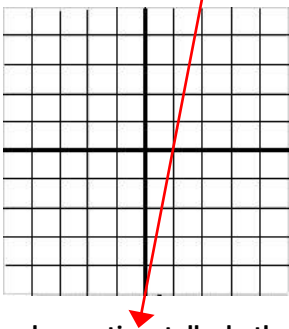


9. x-intercept: -2
 y-intercept: -4

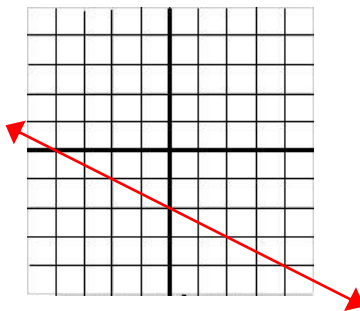


Graph each equation using x-intercepts and y-intercepts.

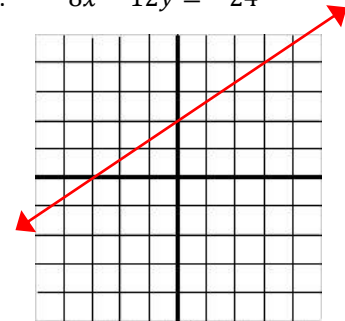
10. $-5x + y = -5$



11. $-3x - 6y = 12$



12. $8x - 12y = -24$



For each equation, tell whether its graph is a horizontal or a vertical line.

13. $y = -2$
 horizontal

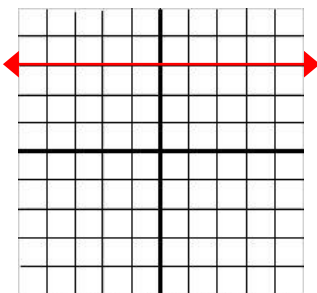
14. $x = 0$
 vertical

15. $y = -0.25$
 horizontal

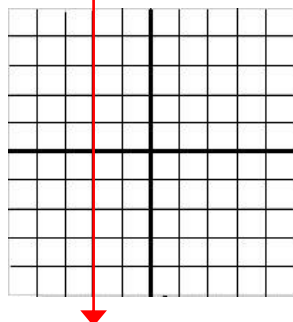
16. $x = -\frac{3}{5}$
 vertical

Graph each equation.

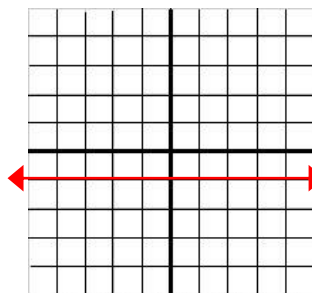
17. $y = 3$



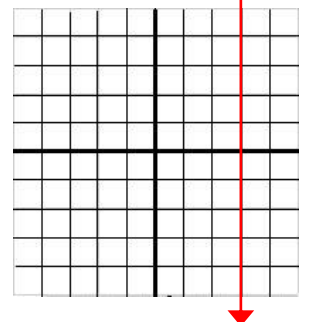
18. $x = -2$



19. $y = -1$



20. $x = 3$



Write each equation in standard form using integers. X needs to be positive. X and Y are not fractions or decimals.

21. $y = x - 4$

$x - y = 4$

22. $y - 4 = 5(x - 8)$

$5x - y = 36$

23. $y + 6 = -3(x + 1)$ $3x + y = -9$

24. $y = -\frac{3}{5}x + 2$

$3x + 5y = 10$

25. $y = \frac{1}{2}x - 10$

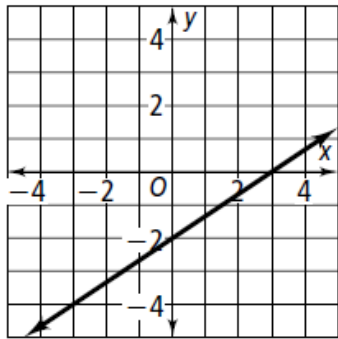
$x - 2y = 20$

26. $y - 3 = -\frac{7}{9}(x + 4)$

$7x + 9y = -1$

For each graph, find the x-intercepts and y-intercepts. Then write an equation in standard form using integers. X needs to be positive. X and Y are not fractions or decimals.

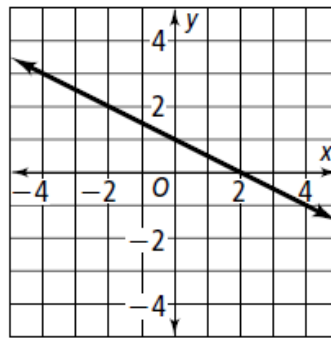
27.



x - intercept = 3, y - intercept = -2

$2x - 3y = 6$

28.



x - intercept = 2, y - intercept = 1

$x + 2y = 2$

Find the x-intercepts and y-intercepts of the line that passes through the given points.

29. $(4, -2), (5, -4)$

x - intercept = 3, y - intercept = 6

30. $(1, 1), (-5, 7)$

x - intercept = 2, y - intercept = 2

31. $(-3, 2), (-4, 10)$

x - intercept = $-\frac{11}{4}$, y - intercept = -22