Math 1 **Name:** _____

Unit 2.4 Practice Standard Form

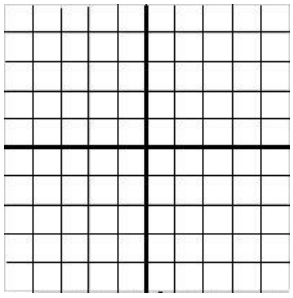
Period: _____

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

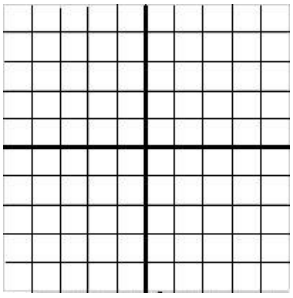
1. $x + y = 7$
2. $x - 3y = 9$
3. $2x + 3y = -6$
4. $-4x - 2y = -8$
5. $5x - 4y = -12$
6. $-2x + 7y = 11$

Draw a line with the given intercepts.

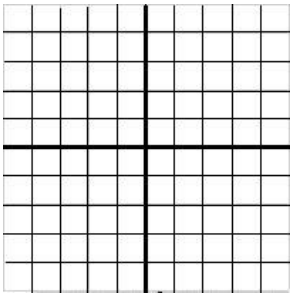
7. $x - intercept: 4$, $y - intercept: 5$



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

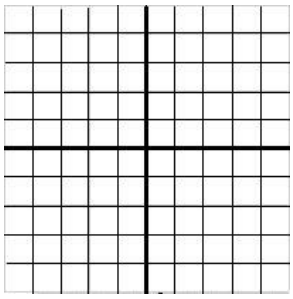


9. $x - intercept: -2$, $y - intercept: -4$

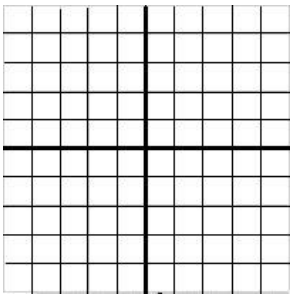


Graph each equation using x-intercepts and y-intercepts.

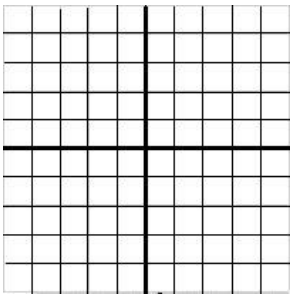
10. $-5x + y = -5$



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



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

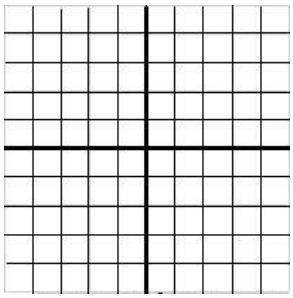


For each equation, tell whether its graph is a <u>horizontal</u> or a <u>vertical</u> line.

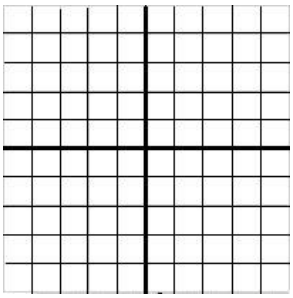
13. $y = -2$
14. $x = 0$
15. $y = -0.25$
16. $x = -\frac{3}{5}$

Graph each equation.

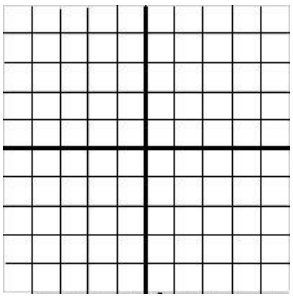
17. $y = 3$



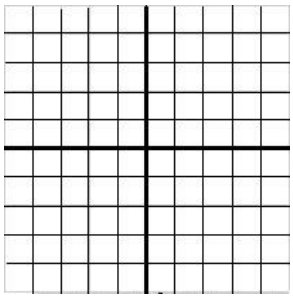
18. $x = -2$



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. $y = x - 4$

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

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

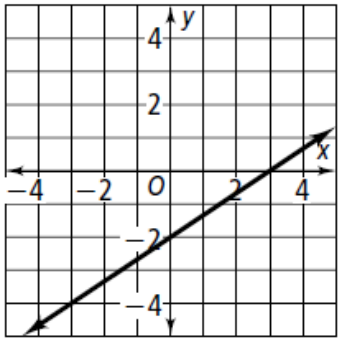
24. $y = -\frac{3}{5}x + 2$

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

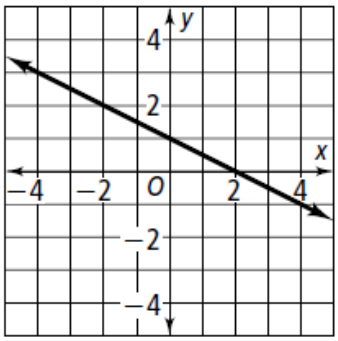
26. $y - 3 = -\frac{7}{9}(x + 4)$

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.



28.



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

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

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

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