

Topic 2.2
Graphing Linear Equations
Homework

Name: _____

Date: _____

Write each equation in *Standard Form*.

1. $2y = -5x + 7$

2. $-y = 7x + 5$

3. $\frac{1}{4}x + \frac{3}{4}y = 6$

4. $3x = \frac{2}{3}y + 4$

5. $-3y = -7x + 4$

6. $\frac{2}{6}x + \frac{3}{4}y = \frac{2}{3}$

7. $2y = \frac{1}{8}x - 10$

8. $\frac{3}{5}x = \frac{2}{10}y - 3$

9. $-5y = 25 + 3y$

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

10. $3x + 4y = 24$

11. $2y = 4x + 16$

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

13. $\frac{y}{3} = -4x - 2$

14. $\frac{1}{5}x + 2y = 12$

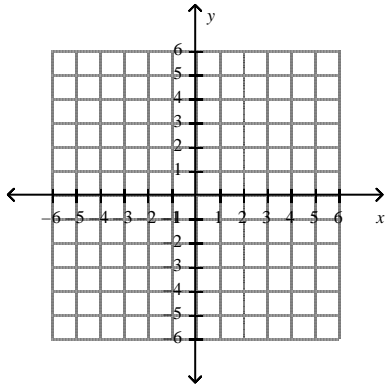
15. $\frac{-7}{9}x - \frac{1}{3}y = -7$

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Graph each equation.

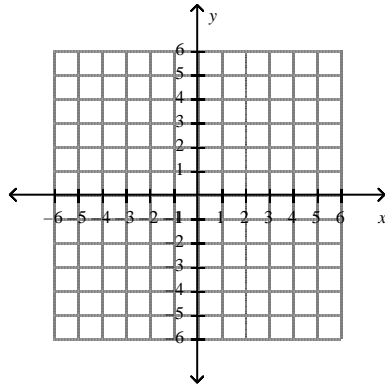
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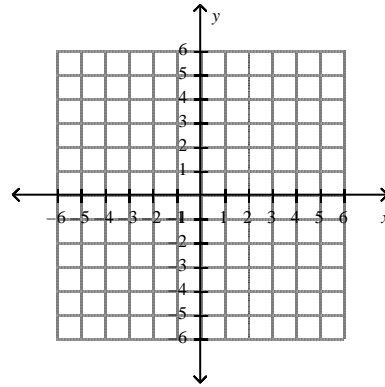
16. $y = \frac{2}{3}x + 1$



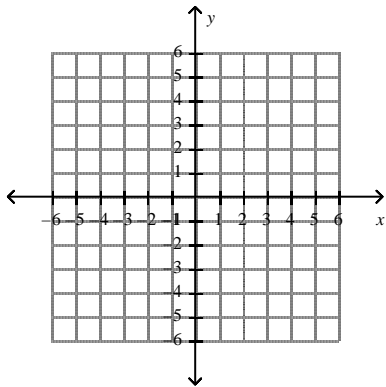
17. $y = 2x$



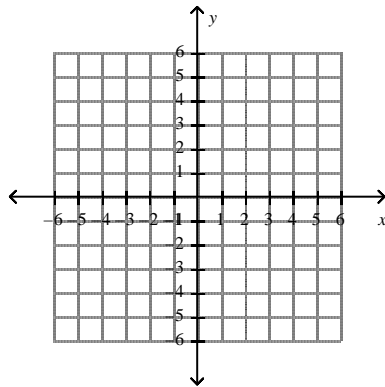
18. $4x + 2y = -6$



19. $y = -3$



20. $x = 5$



21. $\frac{y}{2} = \frac{-1}{3}x - \frac{5}{2}$

