

Name: _____

Unit 2: Linear Functions

Date: _____ Bell: _____

Homework 2: Standard & Slope-Intercept Form

**** This is a 2-page document! ****

Directions: Write each equation in **standard form**.

1. $y = 6x - 4$

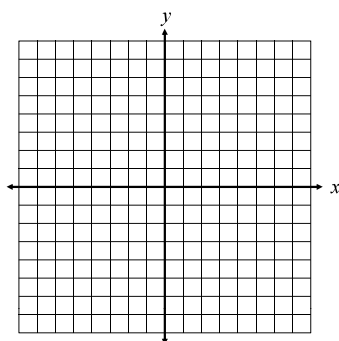
2. $5x + 15y = 75$

3. $4x - 8 = 9y - 5$

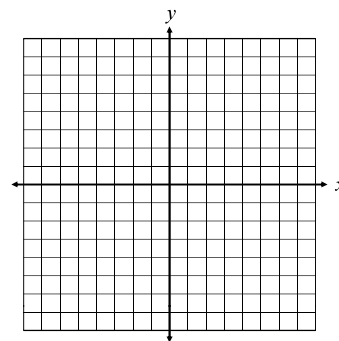
4. $\frac{3}{5}x + \frac{1}{4}y = -\frac{1}{2}$

Directions: Write each equation in **slope-intercept form**. Then graph the line.

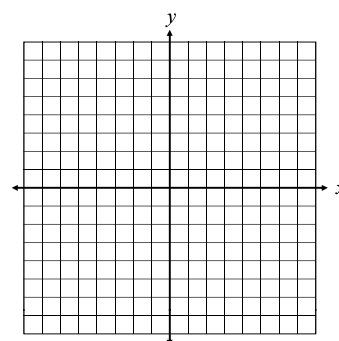
5. $y = -\frac{5}{6}x + 4$



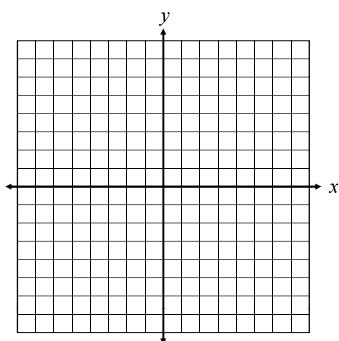
6. $f(x) = 3x - 7$



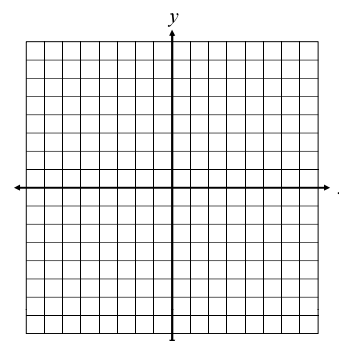
7. $x - y = 8$



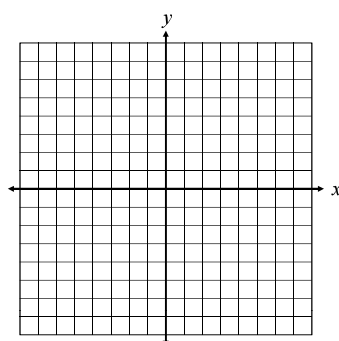
8. $12x + 8y = 28$



9. $x - 2y - 2 = 0$



10. $-5x = 2y$



Directions: Determine if the equations are **parallel**, **perpendicular**, or **neither**.

11. $x + y = 8$ and $y = -x - 1$

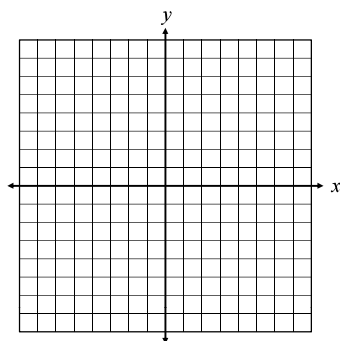
12. $9x - 6y = -20$ and $-3y = 2x - 11$

13. $2x = 14 + y$ and $4x + 2y = 10$

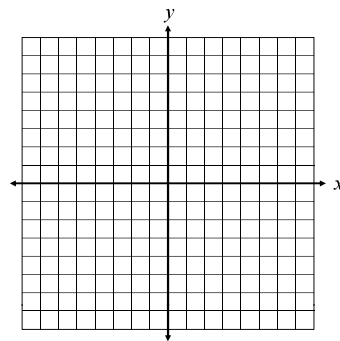
14. $y = -4$ and $y = 7$

Directions: Find the **x-** and **y-intercepts** of each equation. Use the intercepts to graph the line.

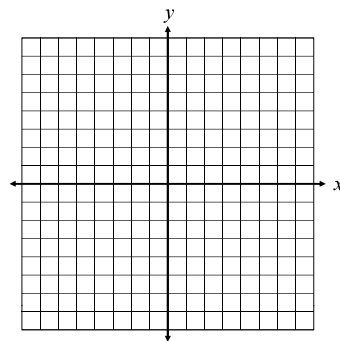
15. $y = 2x - 2$



16. $6x + 5y = -15$



17. $16 + 9x = 4y$



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

