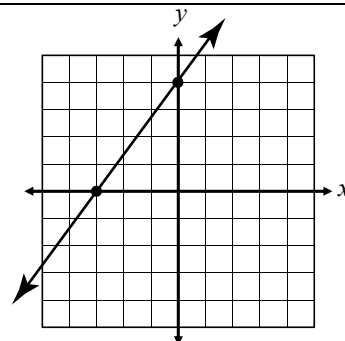| Name:		Date:
Topic:		**Class:**

| Main Ideas/Questions	Notes/Examples
X- and Y- Intercepts	• The point at which the graph intersects the x-axis is called the **x-intercept.** Likewise, the point at which the graph intersects the y-axis is called the **y-intercept.** • Identify the x- and y-intercept of the graph shown on the right.
	The **x-intercept is also refered to as** a _____, _____, or _____ to the equation.
Finding Intercepts Algebraically	To find the x-intercept of an equation, set y equal to 0 and solve for x. To find the y-intercept of an equation, set x equal to 0 and solve for y. You can use these points to graph the equation. **Example:** Find the x- and y-intercepts of the equation y = -2x + 5

Directions: Find the x- and y-intercept of each equation. Then, graph the equation using the intercepts.
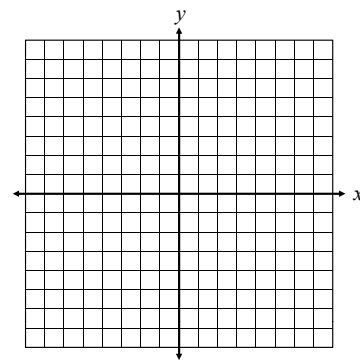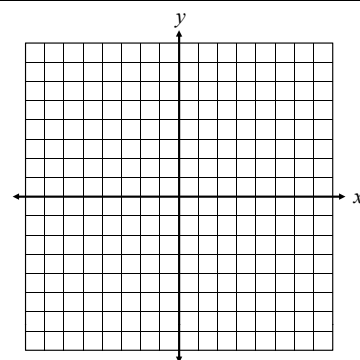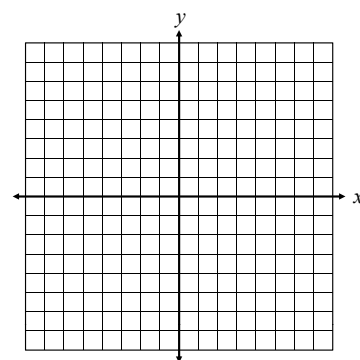
1. $y = 5x - 1$
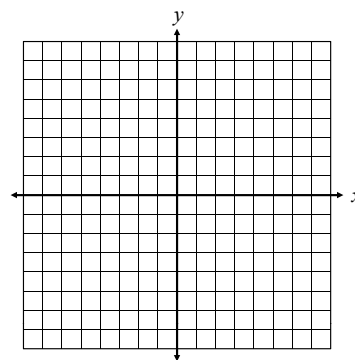
2. $y = -\dfrac{6}{5}x + 2$
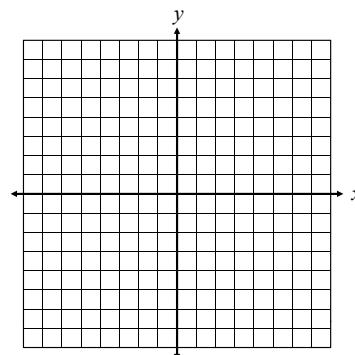
3. $y = -3x + \dfrac{16}{3}$
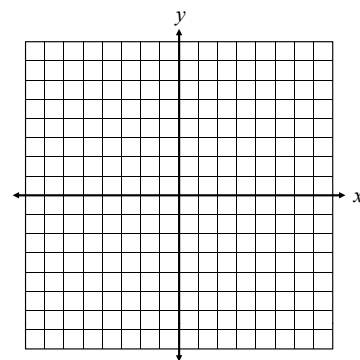
4. $4x - y = 8$

5. $-5x - 4y = -24$

6. $\dfrac{3}{4}x - \dfrac{1}{3}y = -2$

7. $\dfrac{5}{2}x + \dfrac{5}{6}y = 6$