Names: _____ _____ _____

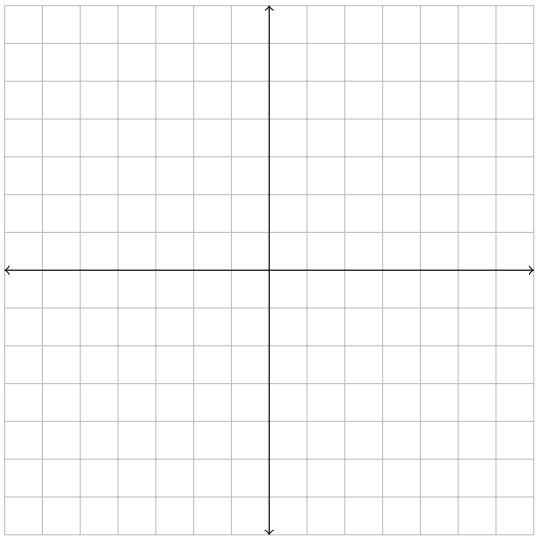
Activity #1: Some Geometry **College Algebra**

1. Find an equation for the line passing through the point $(-3, 4)$ and having slope -2/3.

2. Find the slope between the points $(5, 5)$ and $(-7, 2)$.

3. Find the distance between the points $(-5, 3)$ and $(-3, 2)$.

4. Plot the graph of the linear equation $y = -\frac{1}{4}x + 2$ on the plane below.



5. Find the slope between the points $(2, -1)$ and $(2, -7)$.

6. Find the midpoint of the points $(5, 1)$ and $(-1, -1)$.

7. Find an equation for the circle centered at $(1, -6)$ and having radius 1.

8. Find an equation for the circle centered at $(4, 3)$ and passing through $(-1, -3)$.

9. Find an equation for the line passing through the points $(6, -7)$ and $(-7, 6)$.

10. Convert the standard form linear equation

$$-5y + 4x = -6$$

to slope-intercept form.

11. Find an equation in slope-intercept form for the line passing through the point $(1, 2)$ and parallel to $y = \frac{1}{2}x + 3$.