Names: _____ _____ _____

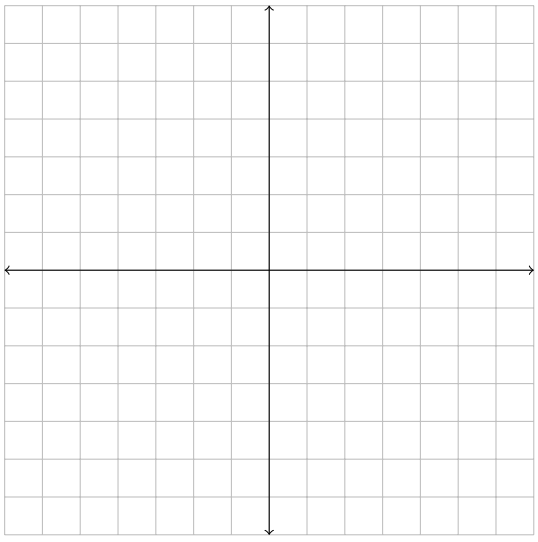
Activity #1: Some Geometry **College Algebra**

1. Find an equation for the line passing through the point $(7, -7)$ and having slope $1/5$.

2. Find the slope between the points $(3, 6)$ and $(-3, -7)$.

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

4. Plot the graph of the linear equation $y = -\frac{3}{5}x - 2$ on the plane below.



5. Find the slope between the points $(5, 6)$ and $(5, -2)$.

6. Find the midpoint of the points $(4, 4)$ and $(-5, 3)$.

7. Find an equation for the circle centered at $(3, 2)$ and having radius 8.

8. Find an equation for the circle centered at $(4, 2)$ and passing through $(-2, -5)$.

9. Find an equation for the line passing through the points $(2, 1)$ and $(-6, -5)$.

10. Convert the standard form linear equation

$$6y + 6x = -2$$

to slope-intercept form.

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