Names: _____ _____ _____

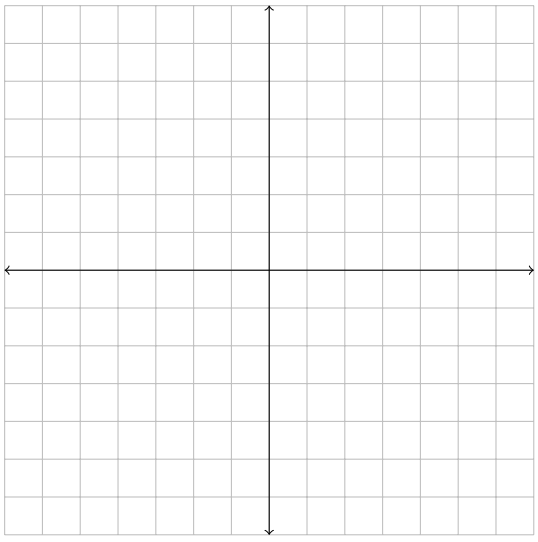
Activity #2: Some Geometry **College Algebra**

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

2. Find the slope between the points $(4, -1)$ and $(-5, -5)$.

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

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



5. Find the slope between the points $(4, -7)$ and $(4, -1)$.

6. Find the midpoint of the points $(7, 3)$ and $(-1, -1)$.

7. Find an equation for the circle centered at $(4, 2)$ and having radius 5.

8. Find an equation for the circle centered at $(3, -3)$ and passing through $(-2, -3)$.

9. Find an equation for the line passing through the points $(6, 1)$ and $(-6, 4)$.

10. Convert the standard form linear equation

$$y + 2x = -2$$

to slope-intercept form.

11. Find an equation in slope-intercept form for the line passing through the point $(4, 3)$ and parallel to $y = \frac{1}{2}x - 1$.