Names: _____ _____ _____

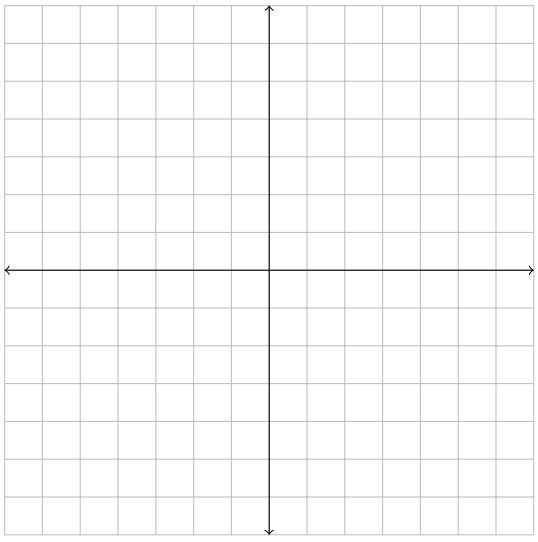
Activity #2: Some Geometry **College Algebra**

1. Find an equation for the line passing through the point $(7, 6)$ and having slope -2/5.

2. Find the slope between the points $(4, -3)$ and $(-1, -4)$.

3. Find the distance between the points $(4, -5)$ and $(3, -4)$.

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



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

6. Find the midpoint of the points $(3, -7)$ and $(-4, 2)$.

7. Find an equation for the circle centered at $(6, -7)$ and having radius 4.

8. Find an equation for the circle centered at $(1, 2)$ and passing through $(-4, -3)$.

9. Find an equation for the line passing through the points $(1, -4)$ and $(-4, -5)$.

10. Convert the standard form linear equation

$$y + 4x = -7$$

to slope-intercept form.

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