

Name \_\_\_\_\_ Hour \_\_\_\_\_ Date \_\_\_\_\_

## Algebra I Point-Slope Form Worksheet

**Give an equation in point-slope form that satisfies the given information.**

1. Passes through (2, 3) and has slope of  $-\frac{1}{2}$ .
2. Passes through (-1, 4) and  $m = 4$ .
3. Passes through (0, 2) and has slope of  $-5/3$ .
4. Passes through (4, -2) and  $m = 0$ .
5. Passes through (-4, 6) and (-2, 5)
6. Passes through (-1, -7) and (1, 3)

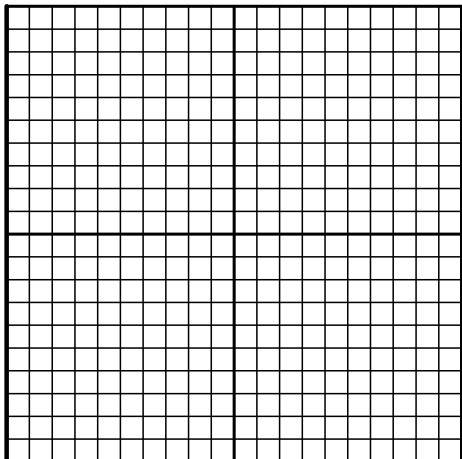
**Give the slope of each of the following lines. Name a point on each line.**

7.  $y + 2 = \frac{2}{3}(x - 4)$
8.  $y - 3 = \frac{1}{2}(x - 3)$
9.  $y + 5 = \frac{1}{4}(x + 2)$
10.  $y = 2(x + 3)$
11.  $y - 8 = -3(x + 1)$
12.  $y + 3 = -\frac{1}{5}x$

**Graph each of the following lines by first giving the point and the slope.**

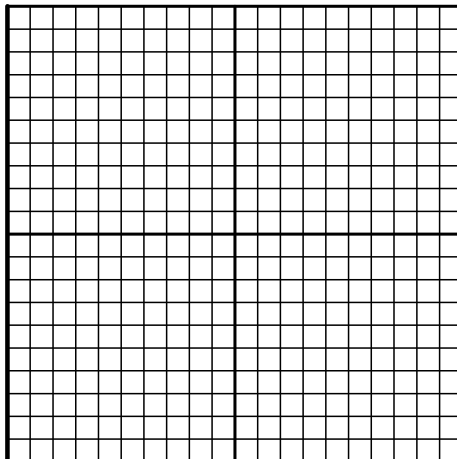
13.  $y + 2 = \frac{1}{3}(x + 1)$

Point \_\_\_\_\_ Slope \_\_\_\_\_



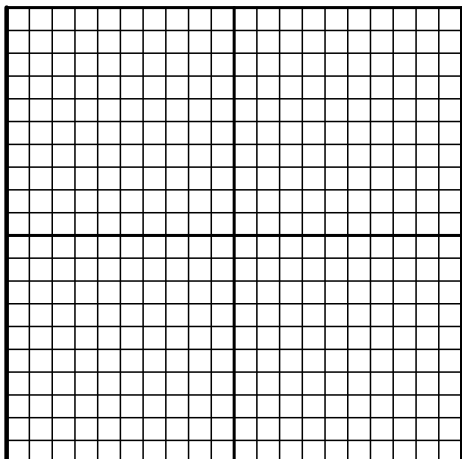
14.  $y + 1 = -\frac{1}{2}(x - 3)$

Point \_\_\_\_\_ Slope \_\_\_\_\_



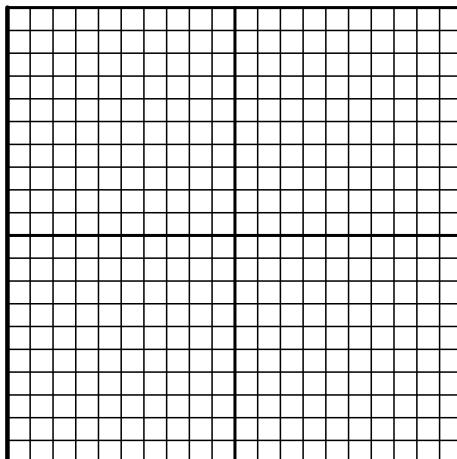
15.  $y - 3 = -2(x - 4)$

Point \_\_\_\_\_ Slope \_\_\_\_\_



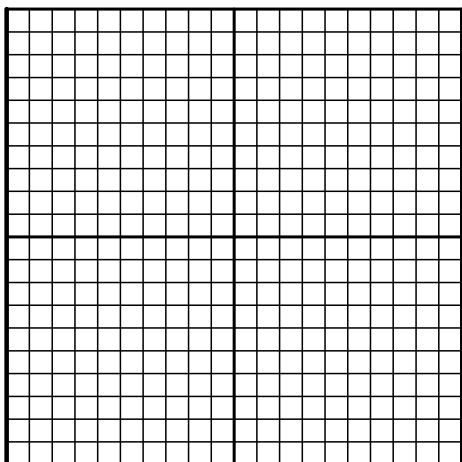
16.  $y - 5 = 3x$

Point \_\_\_\_\_ Slope \_\_\_\_\_



17.  $y + 3 = 0(x - 3)$

Point \_\_\_\_\_ Slope \_\_\_\_\_



18.  $y - 1 = -\frac{5}{2}(x + 2)$

Point \_\_\_\_\_ Slope \_\_\_\_\_

