

Name _____

Date: _____

Mrs. Roubos

8A Period _____

Point - Slope Form Homework

I. Use the point-slope form of each equation to identify a point the line passes through and the slope of the line.

1) $y - 2 = \frac{3}{4} (x + 9)$

2) $y + 9 = 4 (x + 5)$

slope:

slope:

point:

point:

3) $y - 13 = 16 (x - 4)$

4) $y - 5 = -1.4 (x - 6.7)$

slope:

slope:

point:

point:

II. For #'s 5-10: Write the point-slope form of the equation with the given slope that passes through the indicated point.

5) The line with slope -5 passing through (-3,-5)

6) The line with the slope 6 passing through (2,5)

7) The line containing the point (-4, 2) and parallel to the line $2y = 6x - 4$

8) The line containing the point (2,6) and perpendicular to the line $5y = 6x - 15$

9) The line with slope $\frac{3}{5}$ passing through (-7, -2)

10) What is the equation of a line that passes through the points (4,7) and (5,1)?

11) Write the equation in point-slope form of the line that passes through the given point and has the given slope. (4, -7); $m = -\frac{1}{4}$

a) $y + 7 = -\frac{1}{4}(x - 4)$

b) $y - 4 = -\frac{1}{4}(x + 7)$

c) $y + 7 = 4(x - 4)$

d) $y - 7 = -\frac{1}{4}(x - 4)$