Homework:
Point-Slope Form

Date: Sept. 13 Glue on page: 8

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Mini Quiz 1 is on Friday, Sept. 14

Write an equation in point-slope form of the line that passes through the given point and has the given slope.

Point-slope form: $y - y_1 = m(x - x_2)$

1. (2, 7); m = −4 $y - 7 = -4(x-2)$	2. (−6, −2); m = 3 $y+2 = 3(x+6)$
3. (−8, 2); m = $-\frac{3}{4}$ $y-2 = -\frac{3}{4}(x+8)$	4. (7, −6); m = $\frac{1}{2}$ $y+6 = \frac{1}{2}(x-7)$

5. **Write** an equation in point-slope form of the line that passes through the two points, (9, −2) and (−3, 2). Use the first point to write the equation.

x	y	
9	−2	Δy
−3	2	+4
Δx: −12		

$m = \frac{\Delta y}{\Delta x} = \frac{4}{-12}$ simplify

$m = -\frac{1}{3}$

(x, y) (x, y)

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

* I used the table to find the slope ($\frac{\Delta y}{\Delta x}$).

6. **Write** an equation in point-slope form of the line graphed below. Use the right hand point.

(4, 3) (x, y)

$m = -\frac{1}{4}$ from graph

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