

5-4A: Write Equation Given Point & Slope

Date _____ Period ____ Table _____

What is the slope and y-intercept used in each equation?

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

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

3) $y + 5 = -6(x - 1)$

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

Write the slope-intercept form of the equation of the line through the given point with the given slope.

5) through: $(-1, -3)$, slope = 5

6) through: $(-5, 3)$, slope = -3

7) through: $(1, -4)$, slope = -1

8) through: $(1, -2)$, slope = -6

9) through: $(-4, -1)$, slope $= -4$

10) through: $(2, -5)$, slope $= -\frac{4}{3}$

11) through: $(-2, 5)$, slope $= -5$

12) through: $(5, 3)$, slope $= \frac{1}{5}$

13) through: $(1, -1)$, slope $= -3$

14) through: $(5, 0)$, slope $= -1$

15) through: $(-3, 5)$, slope $= -2$

16) through: $(-4, 4)$, slope $= -\frac{1}{4}$