

Algebra 1
Practice 4.2-4.4
Whiteboards

Write an equation in slope-intercept form for the line that passes through $(-2, 4)$ and is parallel to the graph of $y = 6x - 8$.

$$m = 6$$

$$y = mx + B$$
$$4 = 6 \cdot -2 + B$$

$$4 = -12 + B$$
$$+12 \quad +12$$

$$16 = B$$

$$y = 6x + 16$$

39. $\overset{x}{(2, \overset{y}{5})}, \boxed{y = 1x - 3}$ $\overset{\text{pt slope}}{y - y_1 = m(x - x_1)}$

$m = 1$ $y - 5 = 1(x - 2)$

Write an equation in slope-intercept form for the line that passes through the given point and is perpendicular to the graph of the given equation.

43. $(2, 4), y = 3x + 1$

$x \ y$

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

$$y = mx + B$$

$$4 = -\frac{1}{3} \cdot 2 + B$$

$$4 = -\frac{2}{3} + B$$

$$+\frac{2}{3} \quad +\frac{2}{3}$$

$$4\frac{2}{3} = B$$

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

44. $(1, 3), y = -2x - 4$

WB 4,4 skills perpendicular
1-9 odd
11-18 all

$$y = mx + B$$

$$y - y_1 = m(x - x_1)$$

$$Ax + By = C$$

Speed dating:

Slope-intercept form

Point-slope form

Standard form

Remember: you are the expert for your problem!