$(-2, 4)$ $(6, 28)$

$x_1\ y_1$ $x_2\ y_2$

Slope $\Rightarrow$ $\dfrac{y_2 - y_1}{x_2 - x_1}$

$$\frac{28-4}{6-(-2)} = \frac{24}{8} = 3$$ slope

$y = mx + b$

slope

$y = 3x + b$

use one of the given points

$(-2, 4)$

$x\ y$

$4 = 3(-2) + b$

$4 = -6 + b$

$4 + 6 = b$

$10 = b$

$y = mx + b$

$y = 3x + 10$

Worksheet

1. $(3,4)$ $(1,8)$

x_1, y_1 x_2, y_2

$$\frac{y_2 - y_1}{x_2 - x_1}$$