

Find an equation of the line passing through the given points. Use function notation to write the equation

$$\begin{array}{cc} (-2, 3) & (1, 1) \\ x_1, y_1 & x_2, y_2 \end{array}$$

Find the slope

$$\textcircled{1} m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$= \frac{1 - 3}{1 - (-2)} = \frac{-2}{3}$$

$\textcircled{2}$  Point-Slope Form

$$\begin{array}{l} (-2, 3) \\ m = \frac{-2}{3} \end{array}$$

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

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

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

$$\begin{array}{ccc} +3 & +3 & \Rightarrow \\ \hline & & \end{array}$$

