

**Exercise 28**

For the following exercises, find the slope of the line that passes through the two given points.

$$(8, -2) \text{ and } (4, 6)$$

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**Solution**

Use the formula for the slope.

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{6 - (-2)}{4 - 8} = \frac{8}{-4} = -2$$

Therefore, the slope of the line passing through these two points is  $-2$ .