



Questions?  
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Ask Question 

Find the slope of the line that passes through (3, 2) and (6, 4).

Question

$$(x_1, y_1) = (3, 2); (x_2, y_2) = (6, 4)$$

$$\text{Slope} = \frac{y_2 - y_1}{x_2 - x_1}$$

$$= \frac{4 - 2}{6 - 3}$$
$$= \frac{2}{3}$$

$$\text{Slope} = \frac{2}{3}$$

Answer

#### 4. Linear functions

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Questions?  
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Ask Question 

Find the slope of the line that passes through (1, 1) and (2, 1).

Question

$$(x_1, y_1) = (1, 1); (x_2, y_2) = (2, 1)$$

$$\text{Slope} = \frac{y_2 - y_1}{x_2 - x_1}$$

$$\begin{aligned} &= \frac{1 - 1}{2 - 1} \\ &= \frac{0}{1} \\ &= 0 \end{aligned}$$

$$\text{Slope} = 0$$

Answer

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Find the slope of the line that passes through  $(-1, 1)$  and  $(-3, 2)$ .

Question

$$(x_1, y_1) = (-1, 1); (x_2, y_2) = (-3, 2)$$

Answer

$$\text{Slope} = \frac{y_2 - y_1}{x_2 - x_1}$$

$$= \frac{2 - 1}{-3 + 1}$$

$$= \frac{+1}{-2}$$

$$= -\frac{1}{2}$$

$$\text{Slope} = -\frac{1}{2}$$

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Find the slope of the line that passes through (1, 1) and (3, 3).

Question

$$(x_1, y_1) = (1, 1); (x_2, y_2) = (3, 3)$$

Answer

$$\begin{aligned} \text{Slope} &= \frac{y_2 - y_1}{x_2 - x_1} \\ &= \frac{3 - 1}{3 - 1} \\ &= \frac{2}{2} \\ &= 1 \end{aligned}$$

$$\boxed{\text{Slope} = 1}$$

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Questions?  
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Find the slope of the line that passes through  $(2, 0)$  and  $(-2, -1)$ .

Question

$$(x_1, y_1) = (2, 0) ; (x_2, y_2) = (-2, -1)$$

Answer

$$\text{Slope} = \frac{y_2 - y_1}{x_2 - x_1}$$

$$= \frac{-1 - 0}{-2 - 2}$$

$$= \frac{-1}{-4}$$

$$= \frac{+1}{4}$$

$$\boxed{\text{Slope} = \frac{1}{4}}$$

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Ask Question 

Find the slope of the line that passes through  $(-1, 0)$  and  $(-3, 0)$ .

Question

$$(x_1, y_1) = (-1, 0) ; (x_2, y_2) = (-3, 0)$$

Answer

$$\text{Slope} = \frac{y_2 - y_1}{x_2 - x_1}$$

$$= \frac{0 - 0}{-3 + 1}$$

$$= \frac{0}{-2}$$

$$= 0$$

$$\boxed{\text{Slope} = 0}$$

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