Name: \_\_\_\_\_ Date: \_\_\_\_\_

# **Calculating Slope**

#### Part I.

1. 
$$A = (1, 2)$$
  
 $B = (3, 4)$ 

- 1a. Slope = \_\_\_\_\_
- 1b. **Describe** how the applet shows the slope calculated from the points:

1c. **Explain** what appears on the graph with **Show**  $\frac{\Delta y}{\Delta x}$  checked:

$$\begin{array}{c|c} 2. & A = (2, 2) \\ B = (6, 5) \end{array}$$

$$\frac{\Delta \mathbf{y}}{\Delta \mathbf{x}} = \frac{\mathbf{y}}{\mathbf{y}} = \frac{\mathbf{y}}{\mathbf{y}} = \frac{\mathbf{y}}{\mathbf{y}}$$

3. 
$$A = (1, 4)$$
  
 $B = (5, 2)$ 

$$\frac{\Delta \mathbf{y}}{\Delta \mathbf{x}} = \frac{\mathbf{y}}{\mathbf{y}} = \frac{\mathbf{y}}{$$

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### Part II.

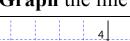
## Calculate the slope

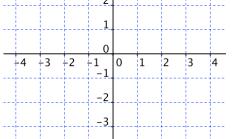
# Graph the line

4. 
$$A = (2, 2)$$

$$\mathbf{B} = (3,4)$$

$$\frac{\Delta \mathbf{y}}{\Delta \mathbf{x}} = \frac{\mathbf{y}}{\mathbf{y}} = \frac{\mathbf{y}}{$$





5. 
$$A = (0, 1)$$
  
 $B = (4, 2)$ 

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6. 
$$A = (1, 4)$$
  
 $B = (4, 1)$ 

Slope =

$$B = (4, 1)$$

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#### Part III.

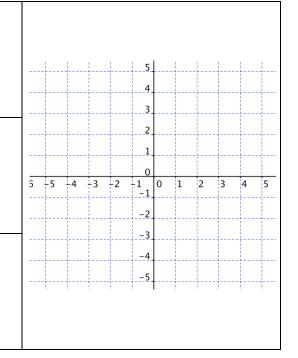
## # Calculate and compare slopes

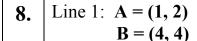
## Graph the lines

7. Line 1: 
$$A = (0, 0)$$
  
 $B = (2, 2)$ 

Line 2: 
$$C = (-1, 2)$$
  
 $D = (1, 4)$ 

Which line has a greater slope? How do you know?





Line 2: 
$$C = (2, 1)$$

$$D = (4, 4)$$

Which line has a greater slope? How do you know?

