Name: _____

Class/Block: _____ 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:

2. $A = (2 , 2)$
$B = (6 , 5)$

2a. **Complete:**

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

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

3a. **Complete:**

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

Name: _____

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Part II.

| # | **Calculate** the slope | **Graph** the line |

#	**Calculate** the slope	**Graph** the line
4.	$A = (2 , 2)$ $B = (3 , 4)$ $\dfrac{\Delta y}{\Delta x} = \dfrac{\boxed{}}{\boxed{}} = \dfrac{\boxed{}}{\boxed{}} = \boxed{}$ Slope = _____	
5.	$A = (0, 1)$ $B = (4, 2)$ Slope = _____	
6.	$A = (1 , 4)$ $B = (4 , 1)$ Slope = _____	

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Part III.

#	**Calculate** and **compare** slopes	**Graph** the lines

7.	Line 1: **A = (0, 0)** **B = (2, 2)** Slope = _____	
	Line 2: **C = (-1, 2)** **D = (1, 4)** Slope = _____	
	Which line has a greater slope? How do you know?	

8.	Line 1: **A = (1, 2)** **B = (4, 4)** Slope = _____	
	Line 2: **C = (2, 1)** **D = (4, 4)** Slope = _____	
	Which line has a greater slope? How do you know?	