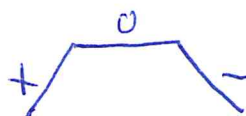


Name Schlansky
Mr. Schlansky

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



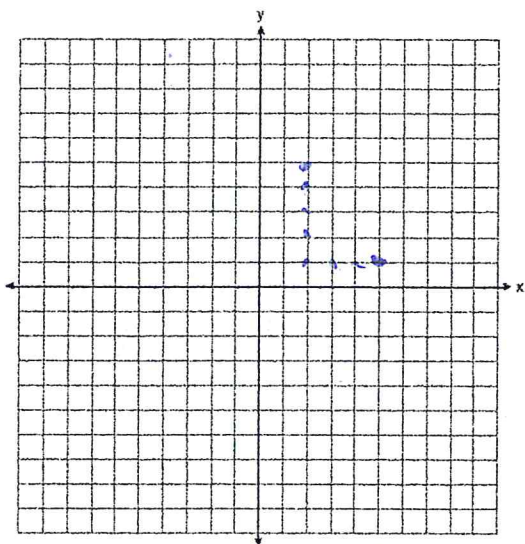
Date _____
Geometry

NO > 10/12

Calculating Slope

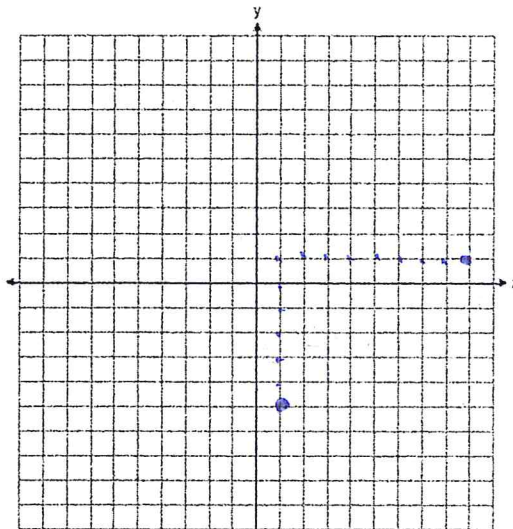
Calculate the slopes between the following sets of points. Express in simplest terms

1. (5,1) and (2,5)



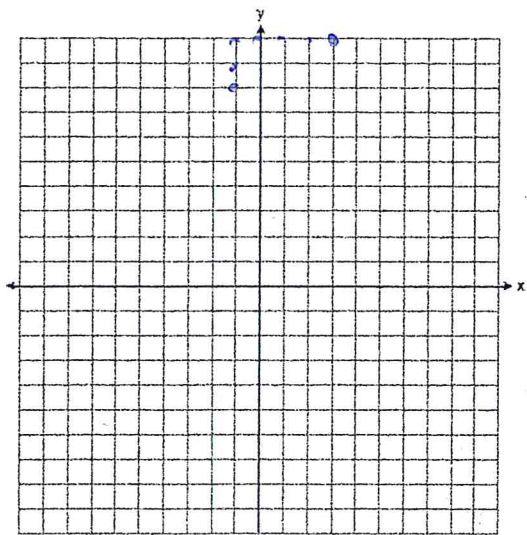
$$m = \frac{\Delta y}{\Delta x} = \frac{-4}{3}$$

2. (9,1) and (1,-5)



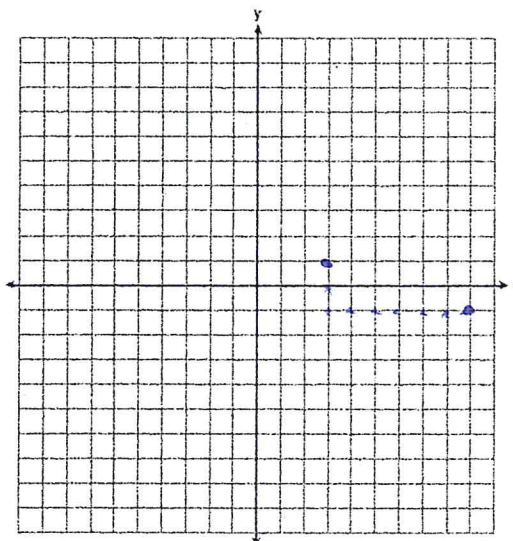
$$m = \frac{\Delta y}{\Delta x} = \frac{6}{8} = \frac{3}{4}$$

3. (3,10) and (-1,8)



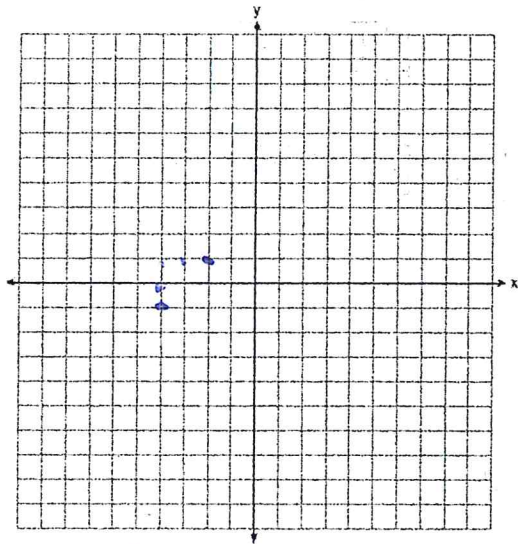
$$m = \frac{\Delta y}{\Delta x} = \frac{2}{4} = \frac{1}{2}$$

4. (3,1) and (9,-1)



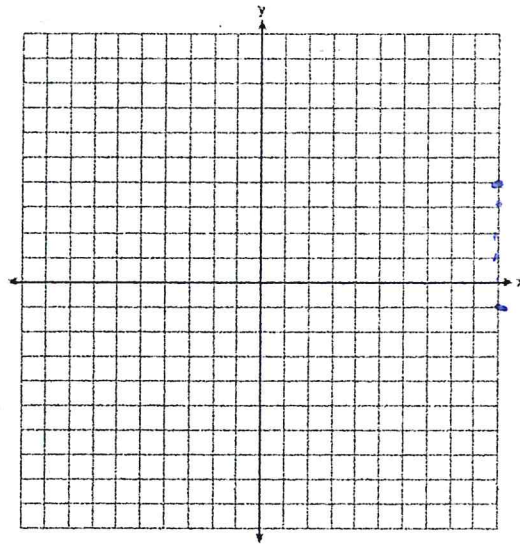
$$m = \frac{\Delta y}{\Delta x} = \frac{-2}{6} = \frac{-1}{3}$$

5. (-2,1) and (-4, -1)



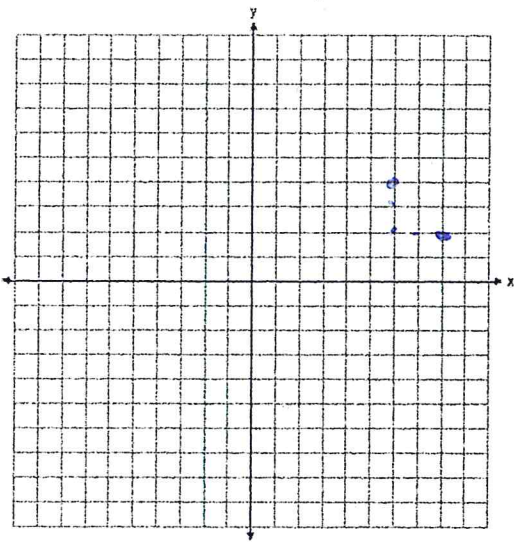
$$m = \frac{\Delta y}{\Delta x} = \frac{2}{2} = 1$$

6. (10,-1) and (10, 4)



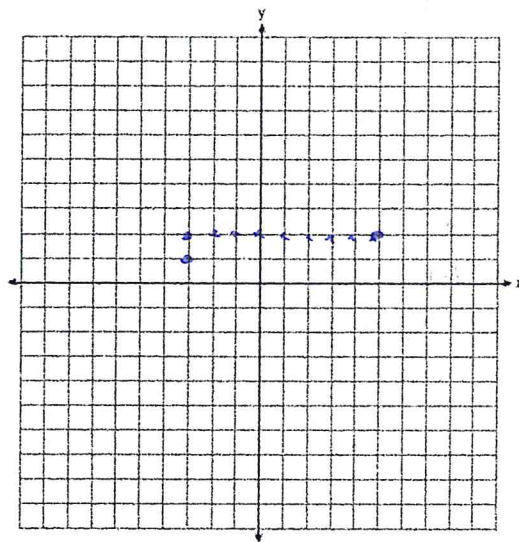
$$m = \frac{\Delta y}{\Delta x} = \frac{5}{0} = \text{No slope}$$

7. (8,2) and (6,4)



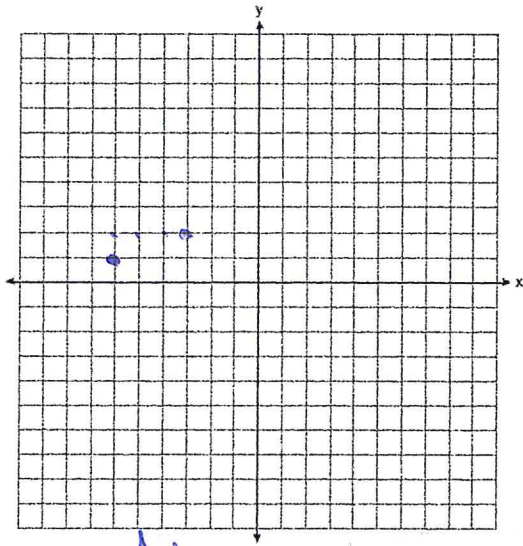
$$m = \frac{\Delta y}{\Delta x} = \frac{-2}{2} = -1$$

8. (-3,1) and (5,2)



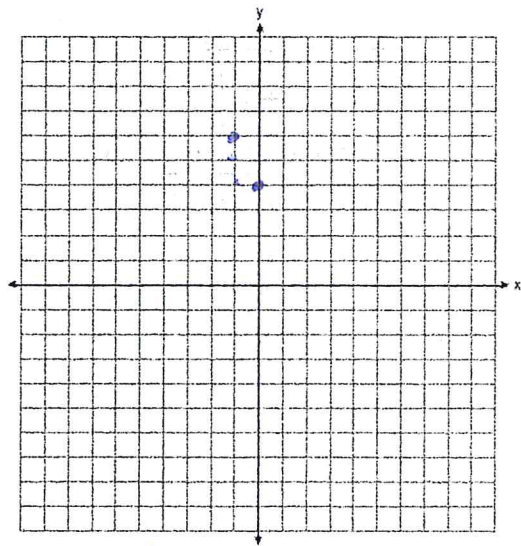
$$m = \frac{\Delta y}{\Delta x}$$
$$m = \frac{1}{8}$$

9. (-6,1) and (-3,2)



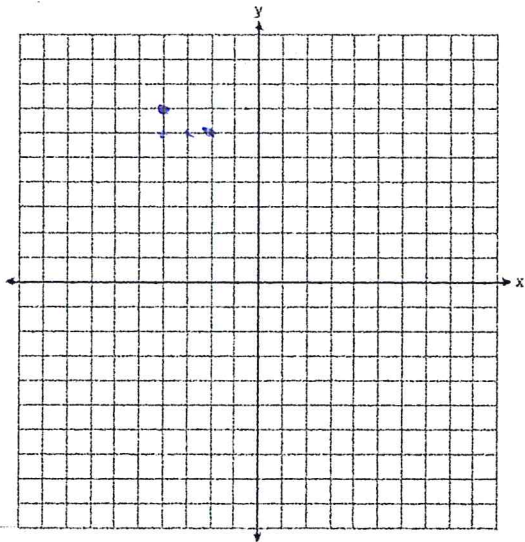
$$m = \frac{\Delta y}{\Delta x}$$
$$m = \frac{1}{3}$$

10. (0,4) and (-1, 6)



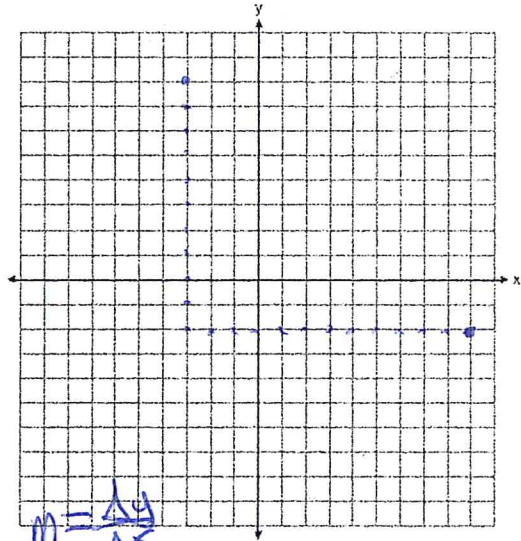
$$m = \frac{\Delta y}{\Delta x} = \frac{2}{1} = 2$$

11. (-4,7) and (-2, 6)



$$m = \frac{\Delta y}{\Delta x} = \frac{-1}{2}$$

12. (9,-2) and (-3, 8)

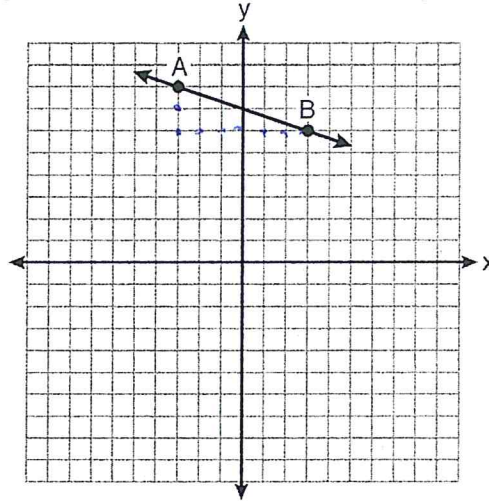


$$m = \frac{\Delta y}{\Delta x}$$
$$m = \frac{-10}{12} = -\frac{5}{6}$$

13. What is the slope of the line passing through the points A and B , as shown on the graph below?

- 1) -3
- 2) $-\frac{1}{3}$
- 3) 3
- 4) $\frac{1}{3}$

$$m = \frac{\Delta y}{\Delta x}$$
$$m = \frac{-2}{6} = -\frac{1}{3}$$



14. In the diagram below, what is the slope of the line passing through points A and B ?

- 1) -2
- 2) 2
- 3) $-\frac{1}{2}$
- 4) $\frac{1}{2}$

$$m = \frac{\Delta y}{\Delta x}$$
$$m = \frac{4}{8} = \frac{1}{2}$$

