

ALGEBRA SLOPE

NAME _____ DATE _____

$$\text{SLOPE} = \frac{\text{Rise}}{\text{Run}} = \frac{\text{Change in y-axis}}{\text{Change in x-axis}} = \frac{y_2 - y_1}{x_2 - x_1}$$

Using co-ordinate point #1 (x_1, y_1) and co-ordinate point #2 (x_2, y_2) substitute the values into the equation.

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

EXAMPLE:

co-ordinate point #1 (2, 7)

Therefore $x_1 = 2$; $y_1 = 7$ and $x_2 = -5$; $y_2 = 3$

co-ordinate point #2 (-5, 3)

Substitute into equation $\frac{3 - 7}{-5 - 2} = \frac{-4}{-7} = \frac{4}{7}$

Find the SLOPE of the line that contains each pair of points. **CIRCLE YOUR ANSWER**

1. (5, 3), (-1, 1)

2. (5, 6), (2, -2)

3. (5, -1), (-3, -4)

4. (-2, 3), (-4, -1)

5. (7, 3), (3, -9)

6. (1, 6), (-2, 5)

7. (-1, 0), (5, -1)

8. (6, 7), (-4, 3)

9. (-3, 4), (-2, -2)

10. (4, 3), (-5, 4)

11. (2, -3), (-1, 0)

12. (-2, -3), (5, 10)