

# Algebra 2

## Topic 2 // Finding the Slope // Practice C

N: **Key**

D:

P: 1 2 3 4 5 6

→ Finding the slope by using the slope formula. Show your work.

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$x_1, y_1, x_2, y_2$   
1.) (2, 4) (6, 8)

$$m = \frac{8 - 4}{6 - 2}$$

$$= \frac{4}{4}$$

$$m = 1$$

2.) (2, 4) (12, 24)

$$m = \frac{24 - 4}{12 - 2}$$

$$m = \frac{20}{10}$$

$$m = 2$$

3.) (2, 3) (7, 9)

$$m = \frac{9 - 3}{7 - 2}$$

$$m = \frac{6}{5}$$

4.) (5, 1) (17, 6)

$$m = \frac{6 - 1}{17 - 5}$$

$$m = \frac{5}{12}$$

5.) (3, 7) (2, 9)

$$m = \frac{9 - 7}{2 - 3}$$

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

$$m = -2$$

6.) (8, 3) (3, 5)

$$m = \frac{5 - 3}{3 - 8}$$

$$m = \frac{2}{-5}$$

$$m = -\frac{2}{5}$$

7.) (3, -2) (7, -6)

$$m = \frac{-6 - (-2)}{7 - 3}$$

$$m = \frac{-6 + 2}{-10}$$

$$m = \frac{-4}{-10}$$

$$m = -\frac{4}{5}$$

8.) (-10, 24) (2, 2)

$$m = \frac{2 - 24}{2 - (-10)}$$

$$m = \frac{-22}{12}$$

$$m = -\frac{11}{6}$$

9.) (2, -3) (-7, 9)

$$m = \frac{9 - (-3)}{-7 - 2}$$

$$m = \frac{12}{-9}$$

$$m = -\frac{4}{3}$$