

Practice Worksheet 9-8

Directions

Write the slope of the line. If the line is vertical, write "vertical".

1. Find the slope of the line that passes through the points $(-2, 4)$ and $(1, 8)$.

$$m = \frac{8 - 4}{1 - (-2)} = \frac{4}{3}$$

2. Find the slope of the line that passes through the points $(-1, 3)$ and $(2, 6)$.

$$m = \frac{6 - 3}{2 - (-1)} = \frac{3}{3} = 1$$

3. Find the slope of the line that passes through the points $(-3, 5)$ and $(-3, 1)$.

$$m = \frac{1 - 5}{-3 - (-3)} = \frac{-4}{0} = \text{vertical}$$

4. Find the slope of the line that passes through the points $(-1, 2)$ and $(-1, 5)$.

$$m = \frac{5 - 2}{-1 - (-1)} = \frac{3}{0} = \text{vertical}$$



5. Find the slope of the line that passes through the points $(-2, 1)$ and $(1, 3)$.

$$m = \frac{3 - 1}{1 - (-2)} = \frac{2}{3}$$

6. Find the slope of the line that passes through the points $(-1, 4)$ and $(-1, 1)$.

$$m = \frac{1 - 4}{-1 - (-1)} = \frac{-3}{0} = \text{vertical}$$



7. Find the slope of the line that passes through the points $(-3, 2)$ and $(1, 2)$.

$$m = \frac{2 - 2}{1 - (-3)} = \frac{0}{4} = 0$$

8. Find the slope of the line that passes through the points $(-2, 3)$ and $(-2, 1)$.

$$m = \frac{1 - 3}{-2 - (-2)} = \frac{-2}{0} = \text{vertical}$$

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$$m = \frac{1 - 3}{-2 - (-2)} = \frac{-2}{0} = \text{vertical}$$

10. Find the slope of the line that passes through the points $(-1, 2)$ and $(1, 2)$.

$$m = \frac{2 - 2}{1 - (-1)} = \frac{0}{2} = 0$$