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FINDING SLOPE WORKSHEETS

1) If (x_1, y_1) and (x_2, y_2) are two points on a straight line then its slope is, m = _____.

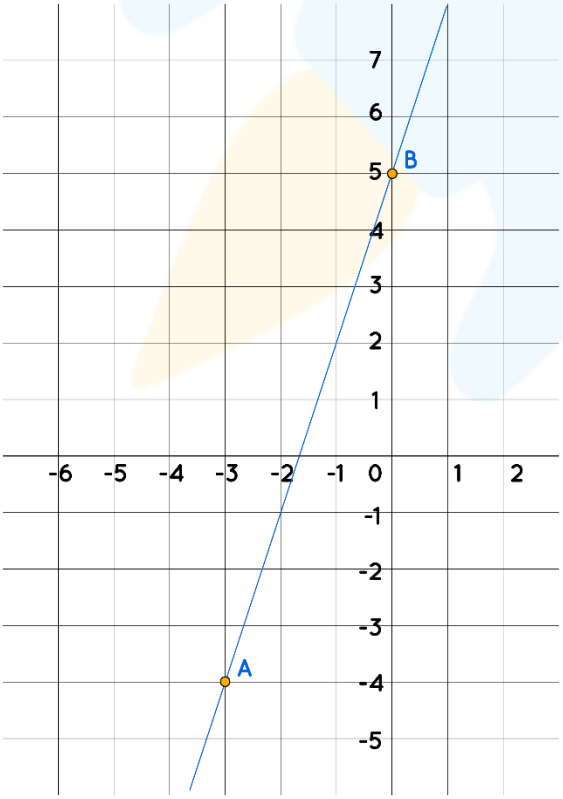
2) The slope of the line that passes through the points (-2, -4) and (3, 2) is ___.

3) The slope of a horizontal line is ___.

4) The slope of a vertical line is ___.

5) The slope of the line that passes through the points (-2, 7) and (-2, -3) is _____.

6) Find the slope of the following line that passes through A and B.



7) There are two straight lines $\overleftrightarrow{AB}$ and $\overleftrightarrow{CD}$, where A = (0, 7), B = (6, 9), C = (0, -4), and D = (12, 0). Is $\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$?

Hint: The slopes of two parallel lines are always equal to each other.

8) Match the lines with their slopes:

a. (1,2) (2, -3)	1. 1/2
b. (0,2) (5,4)	2. -2
c. (6,3) (-4, -2)	3. 2/5
d. (0,7) (3,1)	4. -5

9) If the slope of the line passing through the points (1, k) and (7, -9) is -1, find k.

10) Are the following points collinear? Justify your answer.
Hint: Check whether the slope of AB = slope of AC.
A (-10, 0), B (0, 5), and C (-4, 3).

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ANSWERS

1)	$\frac{y_2 - y_1}{x_2 - x_1}$
2)	$\frac{6}{5}$
3)	0
4)	Undefined
5)	Not defined
6)	3
7)	Yes, $\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$
8)	a) 4 b) 3 c) 1 d) 2
9)	-3
10)	Yes, because the slope of AB = slope of AC = $\frac{1}{2}$

FUN FACT

1. The slope of a line is defined as $\frac{\text{Rise}}{\text{Run}}$.
2. Two lines are said to be parallel if their slopes are equal.
3. Two lines are said to be perpendicular if the product of slopes is -1.