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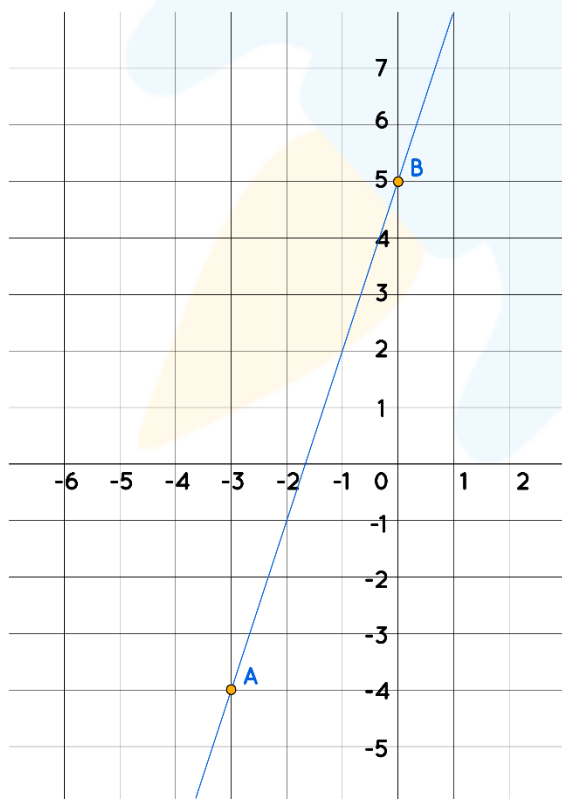
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Slope Worksheet

- 1) The slope of the line that passes through the points (3, 6) and (-2, 6) is _____.
- 2) The slope of the line that passes through the points (2, 10) and (3, 5) is _____.
- 3) The slope of the line that passes through the points (-2, -4) and (3, 2) is _____.
- 4) If (x_1, y_1) and (x_2, y_2) are two points on a straight line then its slope is, $m = \underline{\hspace{2cm}}$.
- 5) Find the slope of the following line that passes through A and B.



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

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

8) Match the following lines (where two points of it are given) with their slopes.

a. $(1, 1)$ $(2, -3)$	1. $\frac{1}{2}$
b. $(0, 3)$ $(5, 4)$	2. -2
c. $(6, 3)$ $(-4, -2)$	3. $\frac{1}{5}$
d. $(0, 7)$ $(3, 1)$	4. -4

9) A table shows the altitude y (in miles) of a rocket x minutes after its launch. Find and interpret the slope of the line joining the following pairs of points.

x	1	3	7	11
y	5	12	26	40



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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- Barbara Cabrera

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**ANSWERS**

1)	0
2)	-5
3)	$\frac{6}{5}$
4)	$\frac{y_2 - y_1}{x_2 - x_1}$
5)	3
6)	Not defined
7)	-3
8)	a) 4 b) 3 c) 1 d) 2
9)	$\frac{7}{2}$; It is the number of miles traveled by the rocket in 1 minute.
10)	Yes, because the slope of AB = slope of AC = $\frac{1}{2}$

FUN FACT

1. The slope of a line that passes through two points (x_1, y_1) and (x_2, y_2) is $\frac{y_2 - y_1}{x_2 - x_1}$.
2. The slope of a horizontal line is always 0.
3. The slope of a vertical line is always undefined.

