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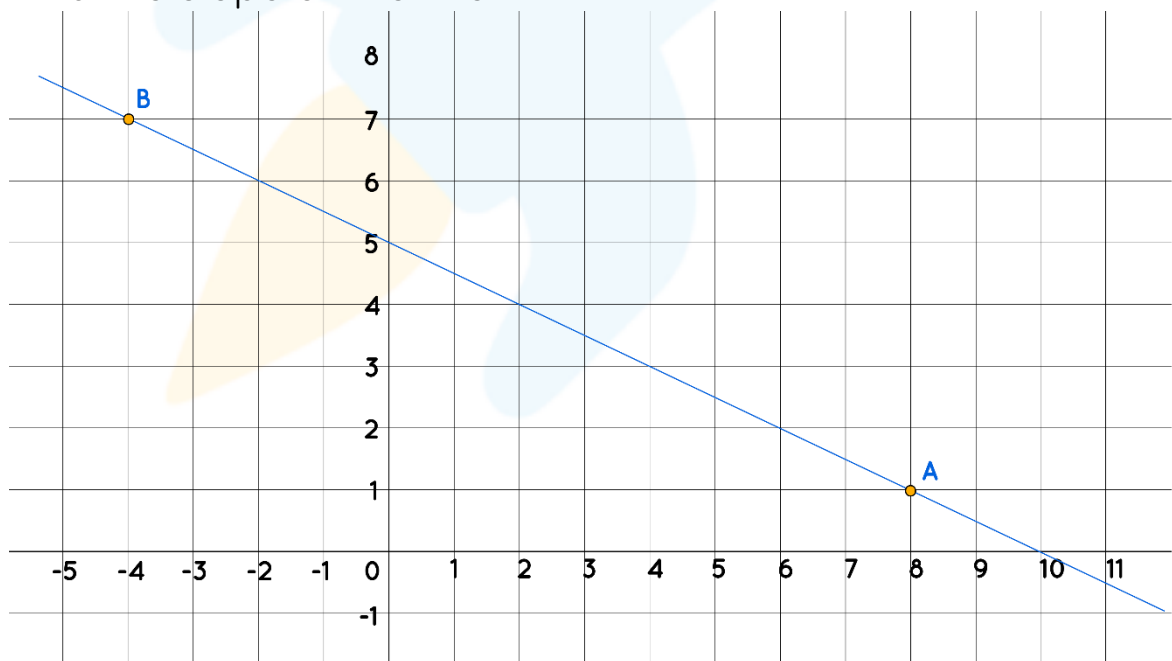
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Slope Worksheets

- 1) The slope of a vertical line is ____.
- 2) The slope of a horizontal line is ____.
- 3) The slope of the line that passes through the points $(-8, 3)$ and $(4, 2)$ is ____.
- 4) The slope of the line that passes through the points $(1, 27)$ and $(8, 3)$ is ____.
- 5) The graph shows the distance travelled by a three-person lift passes through the points $(6, 10)$ and $(5, 4)$. Find the slope of the line joining these two points.

- 6) Find the slope of the line \overleftrightarrow{AB} .



- 7) The slope of a line joining two points $(-7, 5)$ and $(2, k)$ is $\frac{-2}{9}$. Find k .
- 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) 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.

10) A car rental in a city rents its cars for an upfront fee and a daily fee based on the number days the car was rented. Drake rented a car and saw that he owed \$62 after 4 days and \$86 after 7 days when he returned the car. Find the daily fee.

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"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

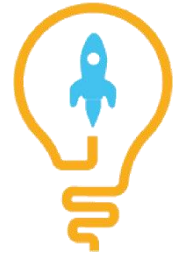
- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	Undefined
2)	0
3)	$\frac{-1}{12}$
4)	$\frac{-24}{7}$
5)	6
6)	$\frac{-1}{2}$
7)	3
8)	a) 4 b) 3 c) 1 d) 2
9)	Yes, $\overrightarrow{AB} \parallel \overrightarrow{CD}$
10)	\$8

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 .

