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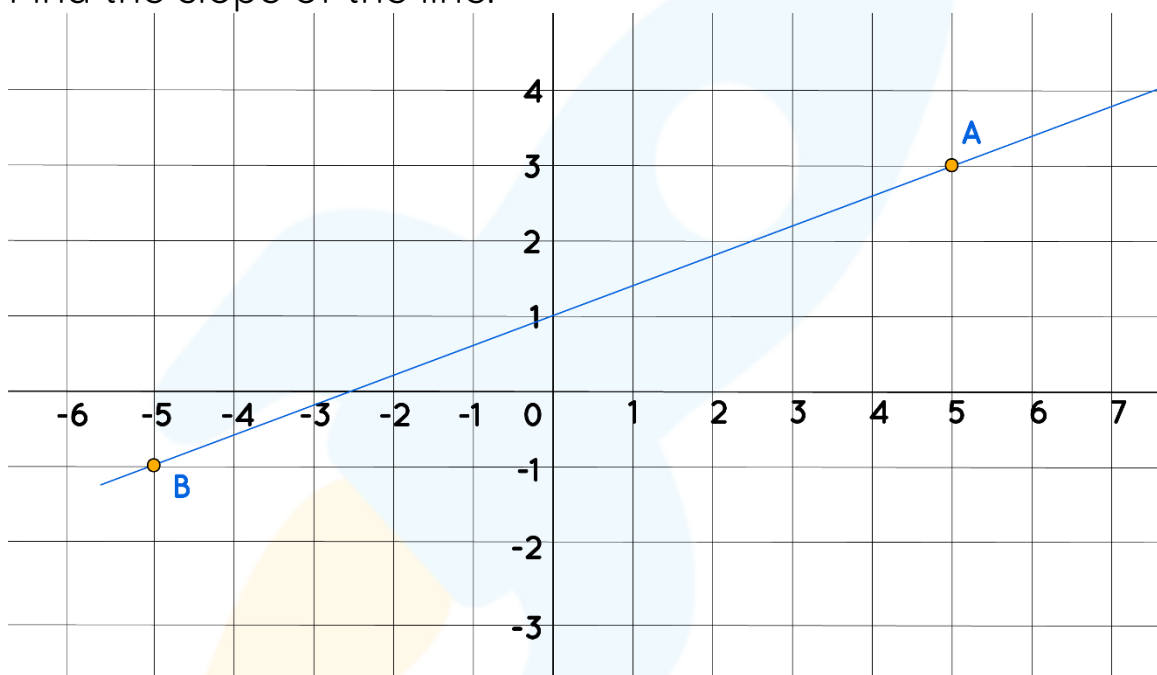
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SLOPE OF A LINE WORKSHEETS

1) The slope of the line passing through two points (7, -8) and (2, -9) is ____.

2) The slope of the line joining two points (3, -7) and (4, -7) is ____.

3) Find the slope of the line.



4) Find whether the line passing through two points (3, -7) and (5, -10) is increasing or decreasing by finding its slope.

5) The slope of the line $7x - 3y = 6$ is _____.

6) Without using a graph can you find out if the points A(3,2), B(-1,3) and C(-3,-2) are collinear?

Hint: Check whether the slope of AB = slope of BC.

7) Find the slope of a line which is inclined at an angle of 45 degrees with the positive y-axis and in the anticlockwise direction.

8) Match the following lines with their slopes.

a. $y = 3x + 2$	1. -3
b. $y - 7 = -3(x + 1)$	2. 0
c. $y = 3$	3. 3
d. $x = 7$	4. Undefined

9) Find the value of k such that the two following lines are parallel.

$$y = -\frac{x}{4} + 7, y = kx - 2$$

10) A surfboard rental in a city rents its surfboards for an upfront fee and an hourly fee based on the number hours it is rented. Jim rented a surfboard and saw that he owed \$35 in 3 hours and \$60 in 8 hours when he returned the surfboard. Find the hourly fee.



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- Gary Schwartz

"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)	$\frac{1}{5}$
2)	0
3)	$\frac{2}{5}$
4)	Slope = $\frac{-3}{2}$, which is negative. Hence the line is decreasing.
5)	$\frac{7}{3}$
6)	Not collinear
7)	1
8)	a-3; b-1; c-2; d-4
9)	$-\frac{1}{4}$
10)	\$5/hour

FUN FACT

1. If the slope of the line is positive, it is increasing.
2. If the slope of the line is negative, it is decreasing.
3. If the slope of the line is 0, it is horizontal and hence it is parallel to x-axis.
4. If the slope of the line is undefined, it is vertical and hence it is parallel to y-axis.

