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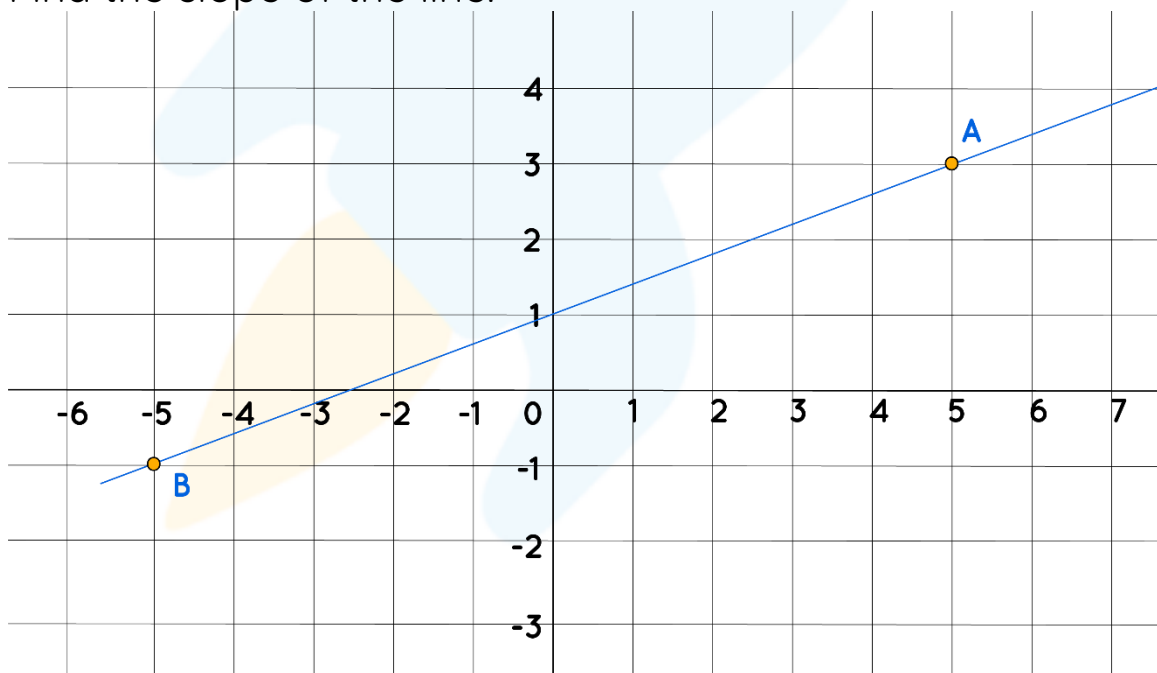
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Slope Worksheets

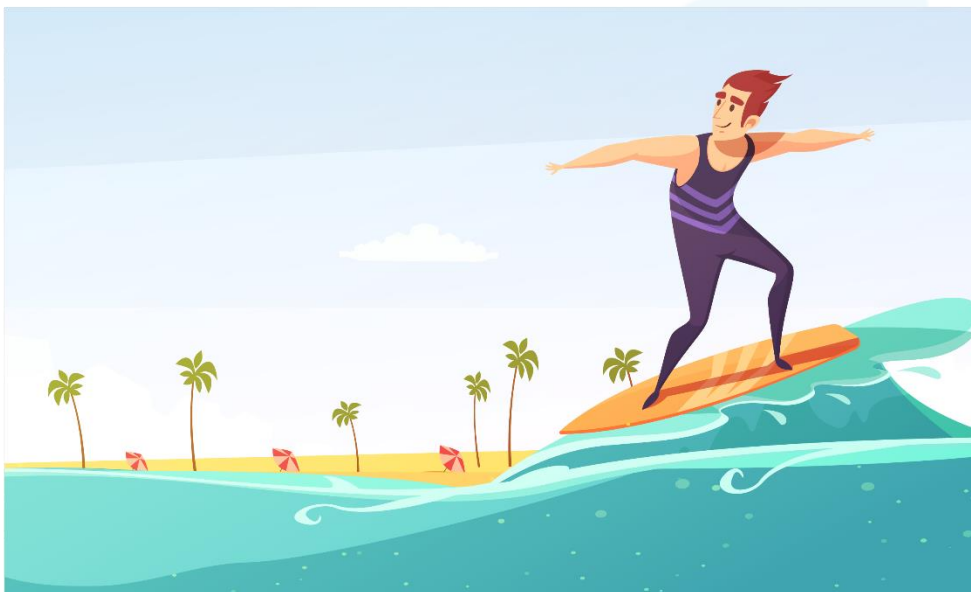
- 1) If the slope of a line is undefined, then the line is parallel to _____ axis.
- 2) The slope of the line joining $(x, f(x))$ and $(x+h, f(x+h))$ is _____.
- 3) The slope of the line joining two points $(3, -7)$ and $(4, -7)$ is _____.
- 4) The slope of the line passing through two points $(7, -8)$ and $(2, -9)$ is _____.
- 5) Find the slope of the line.



- 6) If the slope of a line is 0, then the line is a _____ line.
- 7) Prove that A $(0, -3)$, B $(4, 5)$, and C $(6, 4)$ form a right-angled triangle that is right angled at B.
Hint: Prove that slope of AB \times slope of BC = -1.
- 8) 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 .

- 9) Find whether the line passing through two points $(3, -7)$ and $(5, -10)$ is increasing or decreasing by finding its slope.
- 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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in an interesting way,
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"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- 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)	y-axis
2)	$\frac{f(x+h) - f(x)}{h}$
3)	0
4)	$\frac{1}{5}$
5)	$\frac{2}{5}$
6)	horizontal
7)	Slope of AB \times Slope of BC = $2 \times \frac{-1}{2} = -1$
8)	Not collinear.
9)	Slope = $\frac{-3}{2}$, which is negative. Hence the line is decreasing.
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.

