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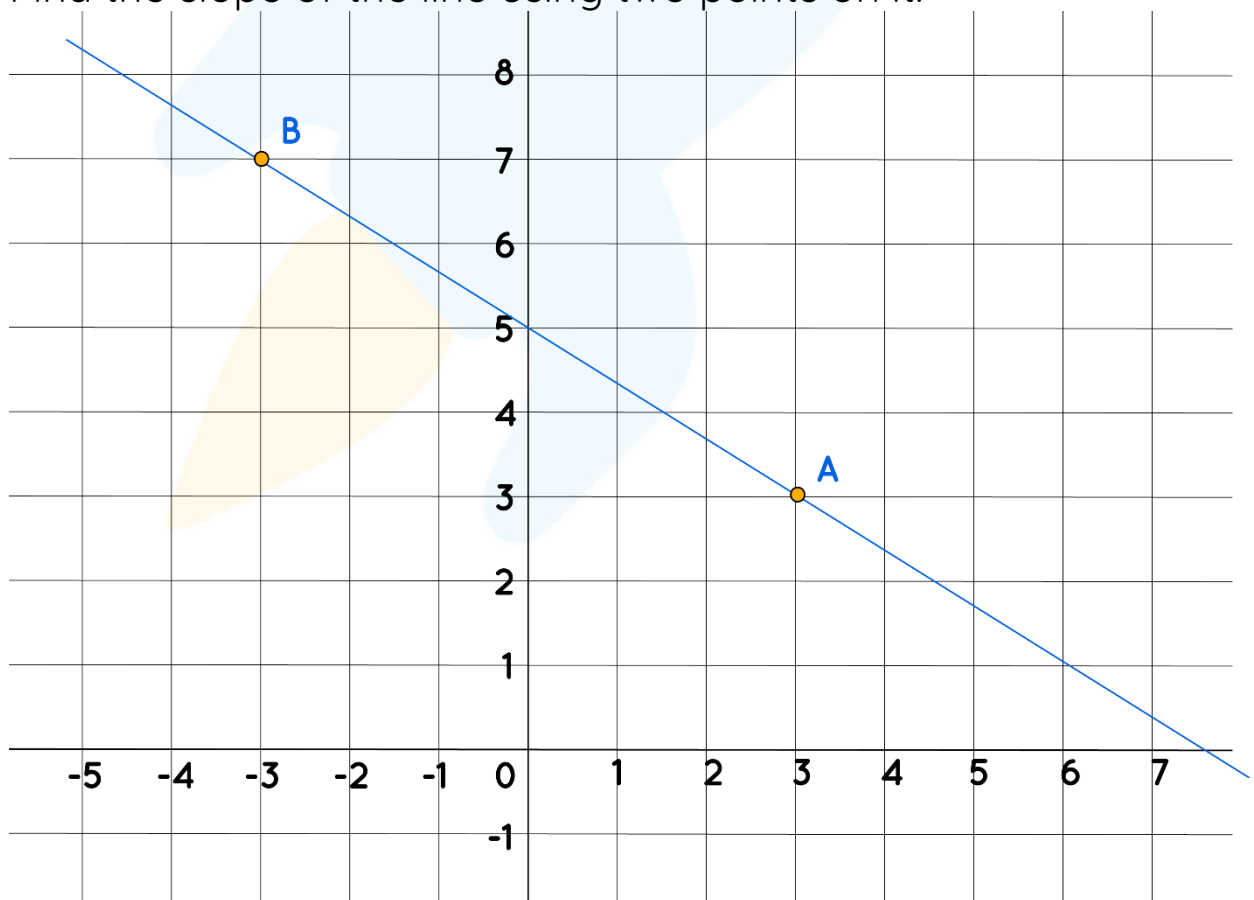
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FINDING SLOPE WORKSHEETS

- 1) The slope of the line that passes through the points $(1, 13)$ and $(-2, 7)$ is ____.
- 2) The slope of the line that passes through the points $(7, -5)$ and $(3, -4)$ is ____.
- 3) The slope of the line joining $(x, f(x))$ and $(x+h, f(x+h))$ is ____.
- 4) If the slope of a line is undefined, then the line is parallel to ____ axis.
- 5) Find the slope of the line using two points on it.



- 6) Is the line passing through the points $(3, 2)$ and $(4, 3)$ parallel to the line passing through the points $(-1, -2)$ and $(-7, -8)$? Justify your answer.

- 7) Find whether the line passing through two points (3, -7) and (5, -10) is increasing or decreasing by finding its slope.
- 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 the value of k if the slope of the line joining the points (-7, 5) and (6, k) is $\frac{2}{13}$.
- 10) The population of New York City in 1990 was 17 million and it was 19 million in 2020. If the relation between the years and the population is linear, find the increase in the population per year.
Hint: Write two ordered pairs representing (year, population) and find the slope.



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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)	2
2)	$\frac{-1}{4}$
3)	$\frac{f(x+h) - f(x)}{h}$
4)	y-axis
5)	$\frac{-2}{3}$
6)	Yes, as the slopes of both lines are the same.
7)	Slope = $\frac{-3}{2}$, which is negative. Hence the line is decreasing.
8)	Not collinear
9)	7
10)	$\frac{1}{15}$

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.

