![cuemath - THE MATH EXPERT]

# Get better at Math. Get better at everything.

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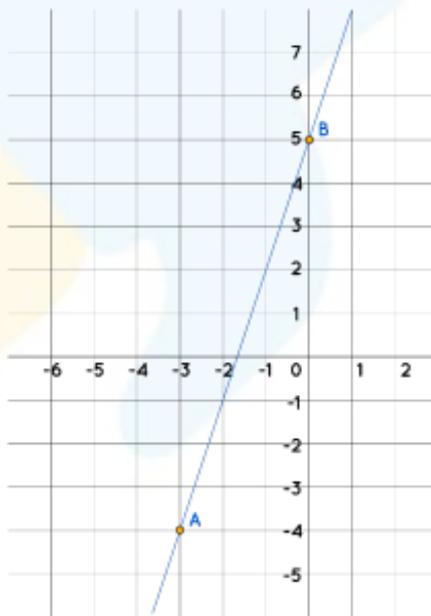**Adaptive Platform** | **Interactive Visual Simulations** | **Personalized Attention**

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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) If $(x_1, y_1)$ and $(x_2, y_2)$ are two points on a straight line then its slope is, m = ____

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) 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 ✕ 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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## THE MATH EXPERT

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- Gary Schwartz

- Kirk Riley

- Barbara Cabrera

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| 1)  | Undefined |
|-----|-----------|
| 2)  | 0 |
| 3)  | -1 |
| 4)  | $y_2-y_1/x_2-x_1$ |
| 5)  | 3 |
| 6)  | Not defined |
| 7)  | -1 |
| 8)  | Not collinear |
| 9)  | -3/2, which is negative. Hence the line is decreasing |
| 10) | $ 5/hour |

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.