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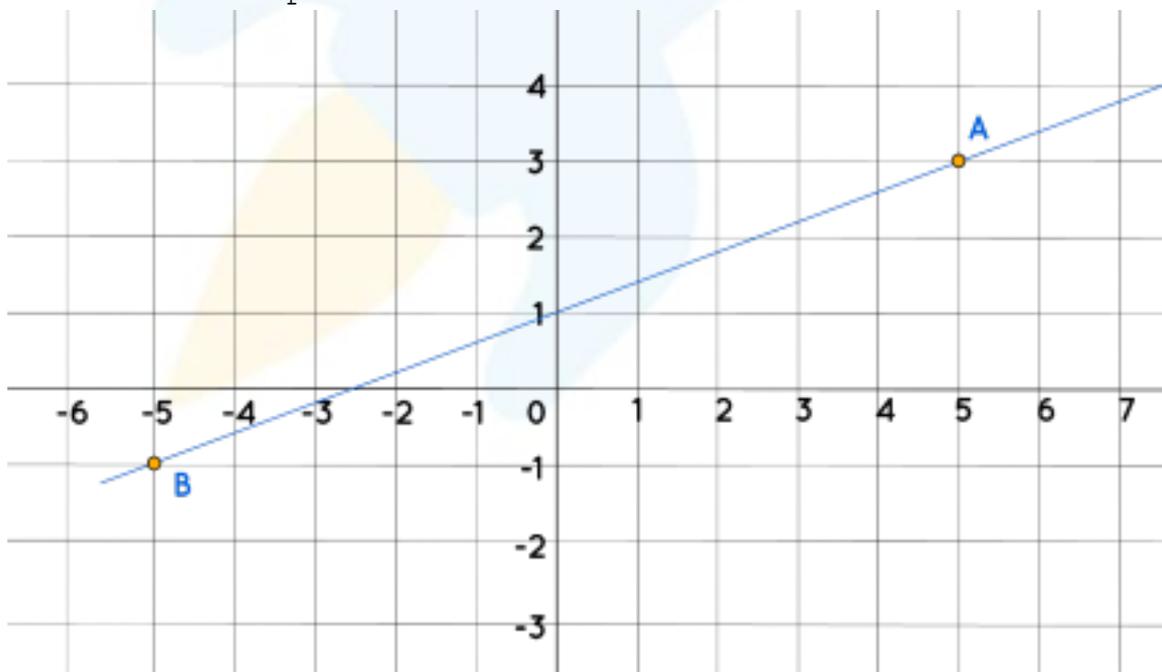
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Finding Slope and Y Intercept Worksheets

- 1) The slope of the line that passes through the points $(3, 6)$ and $(-2, 6)$ is ____.
- 2) The slope of the line that passes through the points $(2, 10)$ and $(3, 5)$ is ____.
- 3) The slope of the line that passes through the points $(-2, -4)$ and $(3, 2)$ 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) Find the value of k if the slope of the line joining the points $(-7, 5)$ and $(6, k)$ is $\frac{2}{13}$.
- 8) There are two straight lines AB and CD , where $A = (9, 6)$, $B = (-6, -4)$, $C = (2, -2)$, and $D = (-4, 7)$. Is $AB \perp CD$? Why?
- 9) Find the value of m if $A(-3, m)$, $B(0, 5)$ and $C(3, 7)$ are collinear.
Hint: Slope of $AB =$ Slope of AC as A , B , and C are collinear.
- 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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- Gary Schwartz

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- 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) | 0 |
| 2) | -5 |
| 3) | $6/5$ |
| 4) | $1/5$ |
| 5) | $2/5$ |
| 6) | Horizontal |
| 7) | 7 |
| 8) | Yes, as their product is -1 |
| 9) | 3 |
| 10) | $1/15$ |

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.

