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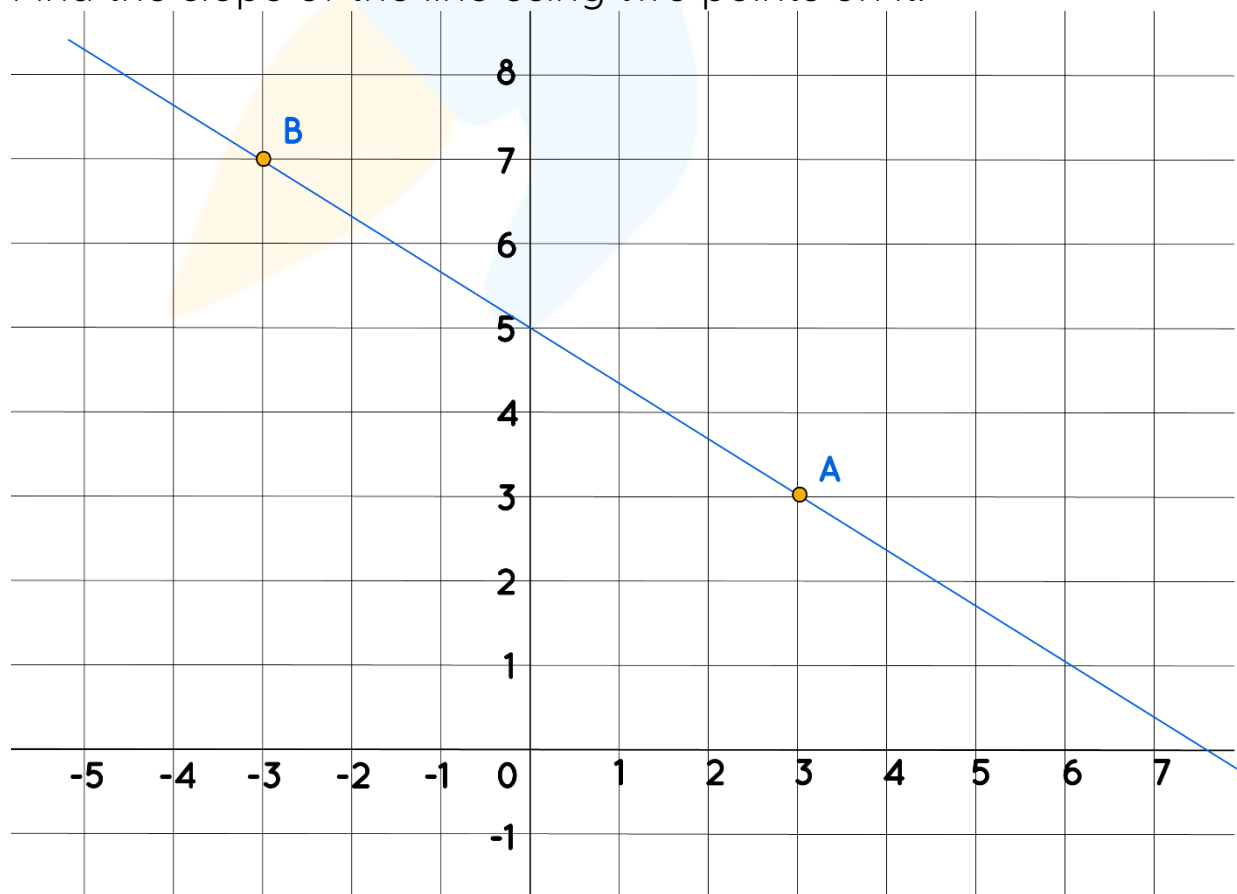
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## Slope Worksheets 8th Grade

- 1) The slope of the line that passes through the points  $(-2, 11)$  and  $(-2, 6)$  is \_\_\_\_.
- 2) The slope of the line that passes through the points  $(3, 5)$  and  $(-7, 5)$  is \_\_\_\_.
- 3) The slope of the line that passes through the points  $(7, -5)$  and  $(3, -4)$  is \_\_\_\_.
- 4) The slope of the line that passes through the points  $(1, 13)$  and  $(-2, 7)$  is \_\_\_\_.
- 5) 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.
- 6) Find the slope of the line using two points on it.



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  $\overrightarrow{AB}$  and  $\overrightarrow{CD}$ , where  $A = (9, 6)$ ,  $B = (-6, -4)$ ,  $C = (2, -2)$ , and  $D = (-4, 7)$ . Is  $\overrightarrow{AB} \perp \overrightarrow{CD}$ ? Why?

9) Find the value of  $m$  if  $A(-3, m)$ ,  $B(0, 5)$  and  $B(3, 7)$  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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- Barbara Cabrera

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**ANSWERS**

1)	Undefined
2)	0
3)	$\frac{-1}{4}$
4)	2
5)	Yes, as the slopes of both lines are the same.
6)	$\frac{-2}{3}$
7)	7
8)	Yes, as the product of their slopes is -1.
9)	3
10)	$\frac{1}{15}$

## FUN FACT

- 1) The slope a line joining two points  $(x_1, y_1)$  and  $(x_2, y_2)$  is  $\frac{y_2 - y_1}{x_2 - x_1}$ .
- 2) If the slope of a line is 0, then it is a horizontal line.
- 3) If the slope of a line is undefined, then it is a vertical line.

