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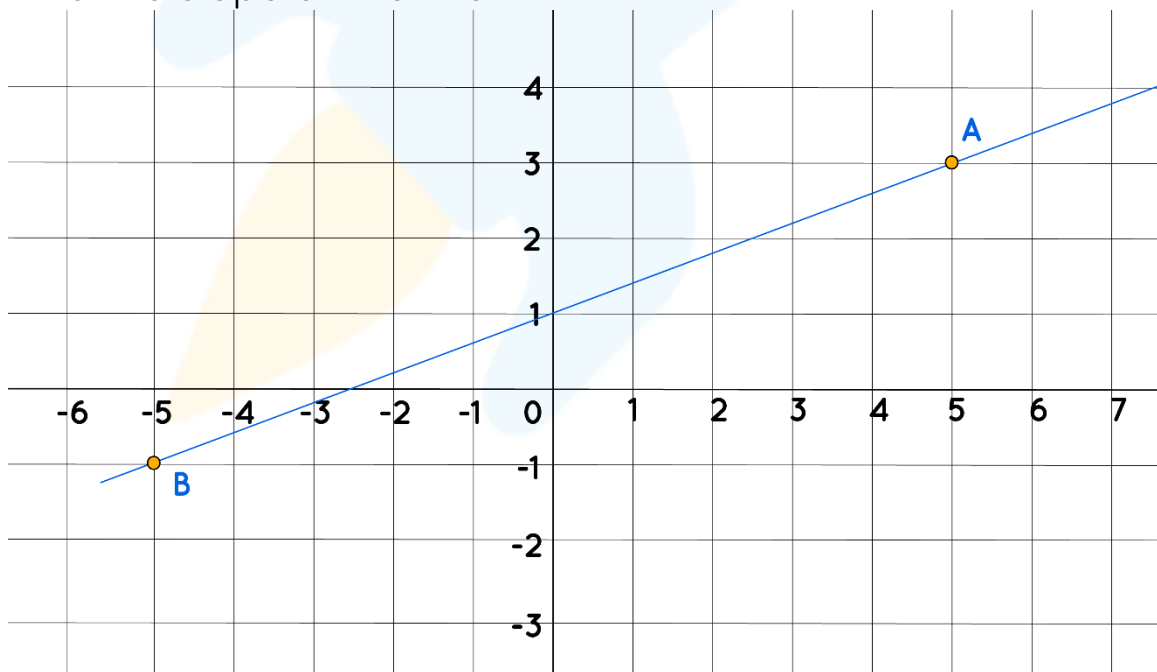
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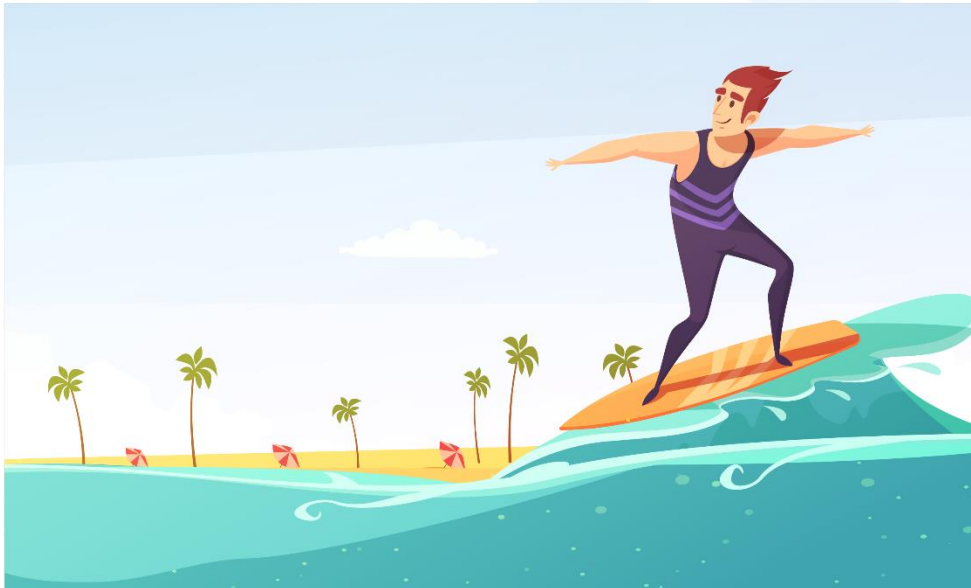
## FINDING SLOPE WORKSHEETS

- 1) The slope of the line passing through two points (7, -8) and (2, -9) is \_\_\_\_.
- 2) The slope of the line joining two points (3, -7) and (4, -7) is \_\_\_\_.
- 3) The slope of the line that passes through the points (3, 5) and (-7, 5) is \_\_\_\_.
- 4) The slope of the line that passes through the points (-2, 11) and (-2, 6) is \_\_\_\_.
- 5) If the slope of a line is 0, then the line is a \_\_\_\_ line.
- 6) Find the slope of the line.



- 7) 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.

- 8) There are two straight lines  $\overleftrightarrow{AB}$  and  $\overleftrightarrow{CD}$ , where  $A = (9, 6)$ ,  $B = (-6, -4)$ ,  $C = (2, -2)$ , and  $D = (-4, 7)$ . Is  $\overleftrightarrow{AB} \perp \overleftrightarrow{CD}$ ? Why?
- 9) 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  $BC = -1$ .
- 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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- 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)	$\frac{1}{5}$
2)	0
3)	0
4)	Undefined
5)	horizontal
6)	$\frac{2}{5}$
7)	3
8)	Yes, as the product of their slopes is -1.
9)	Slope of AB $\times$ Slope of BC = $2 \times \frac{-1}{2} = -1$
10)	\$5/hour

**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.

