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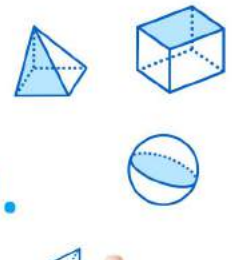

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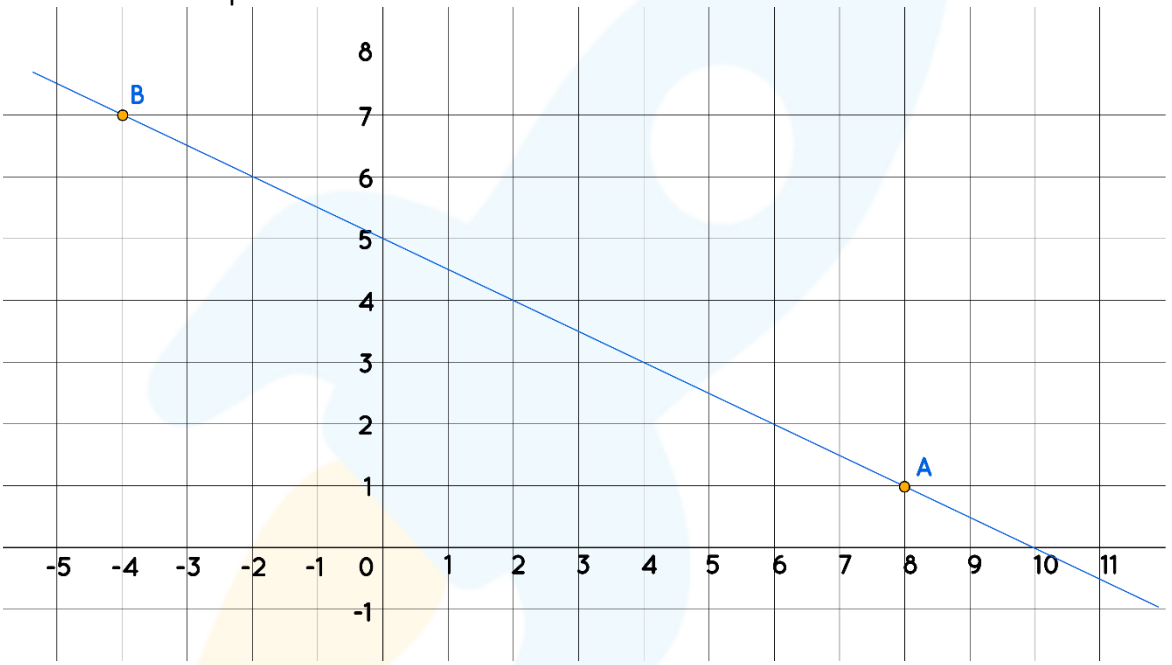
# SLOPE OF A LINE WORKSHEETS

1) The slope of the line that passes through the points (1, 27) and (8, 3) is ___.

2) The slope of the line that passes through the points (-8, 3) and (4, 2) is ___.

3) Find the slope of the line $\overleftrightarrow{AB}$.




4) The slope of a line joining two points (-7, 5) and (2, k) is $\frac{-2}{9}$. Find k.

5) Match the lines with their slopes:

| | |
|---|---|
| a. (1,2) (2, -3) | 1. 1/2 |
| b. (0,2) (5,4) | 2. -2 |
| c. (6,3) (-4, -2) | 3. 2/5 |
| d. (0,7) (3,1) | 4. -5 |

6) A car rental in a city rents its cars for an upfront fee and a daily fee based on the number days the car was rented.

Drake rented a car and saw that he owed $62 after 4 days and $86 after 7 days when he returned the car. Find the daily fee.

7) There are two straight lines $\overleftrightarrow{AB}$ and $\overleftrightarrow{CD}$, where A = (0, 7), B = (6, 9), C = (0, -4), and D = (12, 0). Is $\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$?
**Hint:** The slopes of two parallel lines are always equal to each other.

8) The slope of a line which is parallel to the line having a slope of $\frac{2}{3}$ is _____.

9) Find the slope of a line which is inclined at an angle of 30 degrees with the positive y-axis and in the anticlockwise direction.

10) The slope of a vertical line is _____.

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## ANSWERS

| | |
|---|---|
| 1) | $\frac{-24}{7}$ |
| 2) | $\frac{-1}{12}$ |
| 3) | $\frac{-1}{2}$ |
| 4) | 3 |
| 5) | a) 4<br>b) 3<br>c) 1<br>d) 2 |
| 6) | \$8 |
| 7) | Yes, $\overleftrightarrow{AB} \parallel \overleftrightarrow{CD}$ |
| 8) | $\frac{2}{3}$ |
| 9) | $\sqrt{3}$ |
| 10) | Undefined |

## FUN FACT

1. The slope of a line is defined as $\frac{\text{Rise}}{\text{Run}}$.
2. Two lines are said to be parallel if their slopes are equal.
3. Two lines are said to be perpendicular if the product of slopes is -1.