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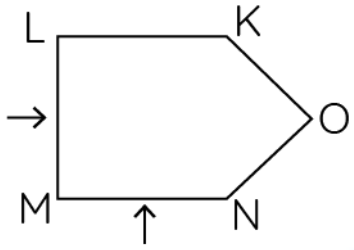
# PARALLEL AND PERPENDICULAR LINES WORKSHEET-IV

1) What is the relation between the line segments indicated by the arrows in the following shape:




2) Which equation is parallel to y = -3x +2?

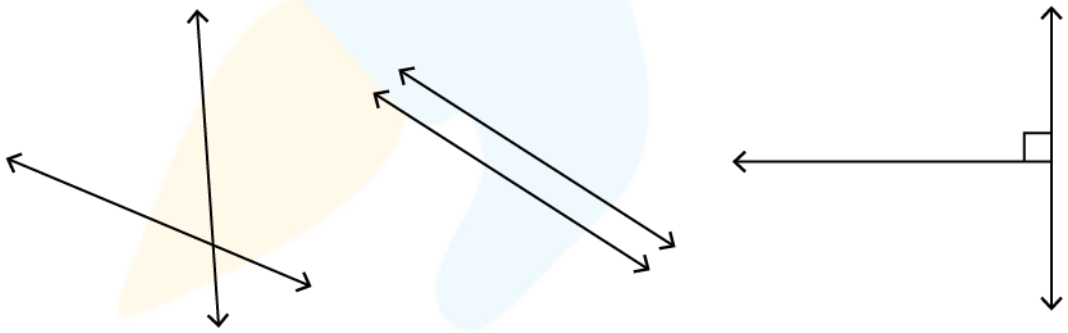
a) $y = \frac{1}{3}x + 5$

b) $y = -\frac{1}{3}x + 5$

c) $y = 3x + 5$

d) $y = -3x + 5$

3) Write each pair of lines as parallel, perpendicular or none.



(A) (B) (C)

_____ _____ _____

4) Fill in the blanks:

The slopes of parallel lines are _____.

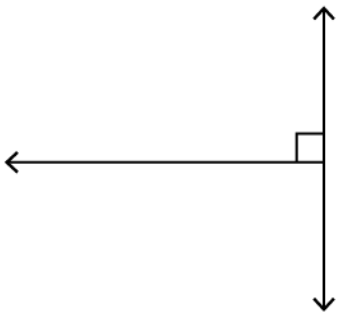
a) Equal

b) Different

c) Distinct

d) None of the above

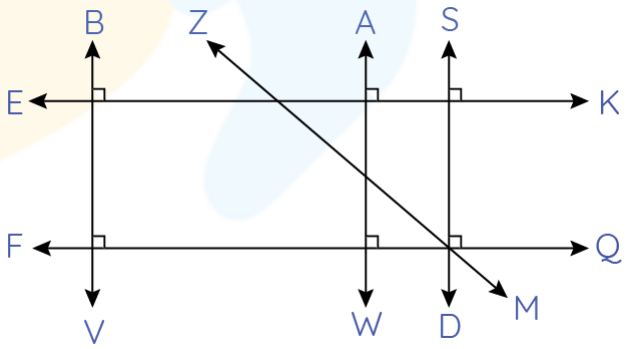
5) State whether true or false:
The slopes of given set of lines are same.



6) From the given slopes of lines, identify if the lines are parallel or perpendicular.

| | Slope of line 1 | Slope of line 2 | Answer |
|---|---|---|---|
| 1. | $\frac{1}{3}$ | $\frac{1}{3}$ | |
| 2. | $\frac{1}{2}$ | -2 | |

Answer Q.7, Q.8 and Q.9 using the following figure:

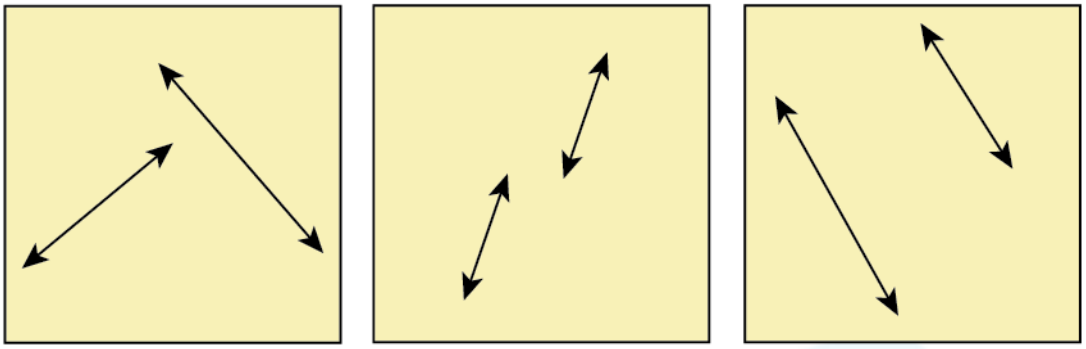



7) Name the lines parallel to line BV.

8) True or false: Line MZ is perpendicular to line FQ.

9) How many lines are perpendicular to line SD?

10)Identify which of the lines is/are parallel?



(A) (B) (C)

a) (B)
b)(B) and (C)
c)(A) and (B)
d)None of the above

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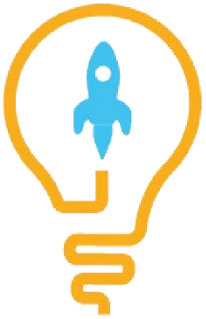
# ANSWERS



| | |
|---|---|
| 1) | perpendicular |
| 2) | d) |
| 3) | A) None B) Parallel C) Perpendicular |
| 4) | a) |
| 5) | False |
| 6) | 1. Parallel 2. Perpendicular |
| 7) | Line AW and line SD |
| 8) | False |
| 9) | 2 |
| 10) | b) |

## FUN FACT

1. Parallel lines do meet at some point. They meet at infinity.

2. The slopes of parallel lines are always equal.

3. The product of the slopes of perpendicular lines is -1.