

Name : \_\_\_\_\_

## Parallel or Perpendicular Lines

Sheet 2

- 1)  $\overleftrightarrow{KL}$  passes through (9, 7) and (10, 1).  $\overleftrightarrow{MN}$  passes through (4, 4) and (10, 5). Are the lines parallel or perpendicular? Justify.

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- 2) A line passes through (-7, 1) and (-2, 6). Another line passes through (-5, -1) and (0, 4). Prove that the lines are parallel.

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- 3) Slope of a line  $m$  is \_\_\_\_\_). Are the lines  $m$  and  $n$  parallel or perpendicular?

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- 4) A line  $g$  passes through \_\_\_\_\_). Is line  $g$  parallel to line  $h$ ?

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- 5) A line passes through  $S(-9, 4)$  and  $T(-4, 3)$ . Another line passes through  $U(7, -8)$  and  $V(10, 7)$ . Prove that  $\overleftrightarrow{ST}$  and  $\overleftrightarrow{UV}$  are perpendicular.

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