

Name : _____

Parallel or Perpendicular Lines

Sheet 3

- 1) A line p passes through $(-9, -4)$ and $(-4, -1)$. Slope of a line q is $\frac{3}{5}$. Prove that the lines p and q are parallel?

- 2) \overleftrightarrow{PQ} passes through $(-1, 3)$ and $(4, 8)$. \overleftrightarrow{RS} passes through $(1, 2)$ and $(5, 6)$. Are the lines parallel or perpendicular? Justify your answer.

- 3) A line passes through $(-2, 5)$ and $(3, -1)$. Another line passes through $(1, 2)$. Prove that the lines are perpendicular.

- 4) A line passes through $(-3, 4)$ and $(5, -2)$. Another line passes through $G(5, -7)$ and $H(10, -2)$. Prove that the lines are perpendicular.

- 5) Slope of a line u is -1 . A line v passes through $(0, -6)$ and $(6, 0)$. Are the lines u and v parallel or perpendicular? Justify.

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