

Name : _____

Parallel or Perpendicular Lines

Sheet 4

- 1) A line passes through $(1, -4)$ and $(2, 2)$. Another line passes through $(0, 2)$ and $(12, 0)$. Prove that the lines are perpendicular.

- 2) A line passes through $A(0, 3)$ and $B(3, 1)$. Another line passes through $C(-2, -5)$ and $D(2, 1)$. Is \overleftrightarrow{AB} perpendicular to \overleftrightarrow{CD} ?

- 3) Slope of a line m is $\frac{1}{2}$ and slope of a line n is $-\frac{1}{2}$. Are the lines m and n parallel or perpendicular?

- 4) A line s passes through $(-1, 2)$ and $(3, 4)$. Another line t passes through $(2, 1)$ and $(4, 3)$. Prove that the lines s and t are perpendicular.

- 5) A line passes through $K(3, -2)$ and $L(-5, 2)$. Another line passes through $M(-2, 4)$ and $N(0, 3)$. Prove that \overleftrightarrow{KL} and \overleftrightarrow{MN} are parallel.

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