Name : _____

Parallel or Perpendicular Lines

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 [PREVIEW]. Are the lines m and n parallel or perpend[icular]

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4) A line g passes thr[ough] 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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