Name : _____

Parallel and Perpendicular Lines

1) Equation of two lines are $y = -4x + 1$ and $4y = x - 8$. Are the lines parallel or perpendicular? Justify.

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2) Equation of a line u is $y = -x + 2$. Slope of a line v is -1. Prove that the lines are parallel.

_____

3) Equation of a line ~~...~~ $\frac{2}{7}x + 5$. Prove that the lines are perpendi~~...~~

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4) Equation of $\overleftrightarrow{PQ}$ is ~~...~~ the lines parallel or perpendicular? Ju~~...~~

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5) Equation of the lines are $y = -2x - 1$ and $10y = 5x + 1$. Prove that the lines are perpendicular.

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