Parallel or Perpendicular Lines

1) A line passes through J(0, −2) and K(5, 1). Another line passes through L(0, 9) and M(5, 12). Prove that $\overleftrightarrow{JK}$ and $\overleftrightarrow{LM}$ are parallel.

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2) Slope of a line y is $\dfrac{7}{4}$. A line z passes through (−4, 2) and (4, 16). Are the lines y and z parallel or perpendicular? Justify.

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3) A line t passes thro ... -4. Prove that the lines t and u are perpen...

4) A line passes throu ...es through Y(−8, 0) and Z(−6, −5). Prove tha...

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5) Slope of a line m is 1. A line n passes through (3, −4) and (4, −5). Are the lines m and n parallel or perpendicular? Justify.

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