

Parallel or Perpendicular? | Points & Slopes

- 1) A line m passes through $(-3, -8)$ and $(0, 10)$, and another line n passes through $(2, -6)$ and $(4, 6)$. Prove that the lines are parallel.

- 2) A line u passes through $(2, 1)$ and $(7, 4)$, and the slope of a line v is $-\frac{5}{3}$. Prove that the lines are perpendicular.

Preview

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- 3) A line p passes through $(-2, 5)$ and $(3, -1)$, and another line q passes through $(1, 2)$ and $(4, -2)$. Prove that the lines are perpendicular.
- 4) A line r passes through $(-1, 3)$ and $(2, -1)$, and another line s passes through $(-5, -6)$ and $(4, -10)$. Prove that the lines are parallel.
- 5) The slope of a line a is $\frac{9}{4}$, another line b passes through $(-5, -6)$ and $(4, -10)$. Prove that the lines a and b are perpendicular.