## Parallel or Perpendicular Lines

Sheet 1

1) A line m passes through (1, -7) and (6, -2). A line n passes through (3, -9) and (8, -4). Prove that the lines m and n are parallel.

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

## **PREVIEW**

3) A line passes throup D(7, 13). Is  $\overrightarrow{AB}$  para

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4) A line passes throu (3, 6). Prove that the

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nrough C(2, -2) and

ough (–5, 4) and

5) Slope of a line p is 1. A line q passes through (-1, -8) and (4, -3). Are the lines p and q parallel or perpendicular? Justify your answer.