## Parallel and Perpendicular Lines

Sheet 3

1) Equation of  $\overrightarrow{EF}$  is  $\frac{1}{9}$  y = x – 7. Equation of  $\overrightarrow{GH}$  is y = 9x + 13. Prove that  $\overrightarrow{EF} \mid \overrightarrow{GH}$ .

2) Equation of a line m is y = -8x + 4. Equation of a line n is -2y - 16x + 1 = 0. Are the lines parallel or perpendicular? Justify your answer.

## **PREVIEW**

3) Equation of two line perpendicular.

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t the lines are

4) Equation of a line Justify.

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ines perpendicular?

5) Equation of the lines are y + 6x = -9 and 4y = -24x + 11. Are the lines parallel or perpendicular? Justify your answer.