

## Parallel and Perpendicular Lines

Sheet 5

- 1) Find the equation of the line that is parallel to the line  $y = -8x + 3$  and passes through the point  $(9, 4)$ .

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- 2) Find the equation of the line passing through the point  $(-5, 2)$  and perpendicular to line  $x - \frac{1}{8}y = 6$ .

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- 3) The slope of a line is  $\frac{1}{2}$  and it passes through the point  $(-4, -6)$ .

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- 4) Find the equation of the line joining the points  $(-2, 3)$  and  $(4, -1)$  and parallel to the line  $y = 2x - 5$ .

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- 5) A line  $u$  passing through the point  $(-10, 8)$  is parallel to the line  $v$  that cuts the  $x$ -axis at  $x = 5$  and  $y$ -axis at  $y = 7$ . Find the equation of the line  $u$ .

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