

## Parallel and Perpendicular Lines

Sheet 1

- 1) Find the equation of the line parallel to the line  $4y + 48 - 16x = 0$  and passes through the point  $(-4, -2)$ .

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- 2) Write the equation of the line passing through the point  $(7, -3)$  and perpendicular to the line joining

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- 3) The line  $l$  passes through the point  $(-2, 3)$  and has a slope of 5. Find the equation of the line  $m$  which has a

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- 4) Find the equation of the line passing through the point  $(-1, 2)$  and perpendicular to the line  $y = \frac{3}{4}x + 5$ .

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- 5) A line  $u$  passing through the point  $(8, 9)$  is parallel to the line  $v$  that cuts the  $x$  and  $y$  axis at  $x = -3$  and  $y = 6$ . Find the equation of the line  $u$ .

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**Answer key****Parallel and Perpendicular Lines**

Sheet 1

- 1) Find the equation of the line parallel to the line  $4y + 48 - 16x = 0$  and passes through the point  $(-4, -2)$ .

$$\underline{4x - y = -14}$$

- 2) Write the equation of the line passing through the point  $(7, -3)$  and perpendicular to the line joining

$$\underline{x + y = 10}$$

- 3) The line  $l$  passes through the point  $(-2, 3)$  and has a slope of 5. Find the equation of the line  $l$ .

$$\underline{5x - y = 13}$$

- 4) Find the equation of the line passing through the point  $(-1, 2)$  and perpendicular to the line  $y = \frac{3}{4}x + 1$ .

$$\underline{4x + 3y = 11}$$

- 5) A line  $u$  passing through the point  $(8, 9)$  is parallel to the line  $v$  that cuts the  $x$  and  $y$  axis at  $x = -3$  and  $y = 6$ . Find the equation of the line  $u$ .

$$\underline{2x - y = 7}$$

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line  $m$  which has a

5) and perpendicular