

## Parallel and Perpendicular Lines

- 1) A line  $v$  passing through the point  $(-9, -1)$  and parallel to the line  $w$  which has a slope of  $-3$ . Find the equation of the line  $v$ .

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- 2) Write the equation of the line that is perpendicular to the line  $-3x + 21y + 24 = 0$  and passes thro

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- 3) The line  $r$  passe slope is  $\frac{7}{6}$ . Find

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- 4) Find the equatio through the poi

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- 5) Find the equation of the line that is perpendicular to the line joining the points  $(-2, 8)$  and  $(4, 9)$  and passes through the point  $(1, -1)$ .

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to the line  $s$  whose

$y + 15 = 0$  and passes

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

Sheet 5

- 1) A line  $v$  passing through the point  $(-9, -1)$  and parallel to the line  $w$  which has a slope of  $-3$ . Find the equation of the line  $v$ .

$$\underline{3x + y = -28}$$

- 2) Write the equation of the line that is perpendicular to the line  $-3x + 21y + 24 = 0$  and passes thro

$$\underline{7x + y}$$

- 3) The line  $r$  passe slope is  $\frac{7}{6}$ . Find

$$\underline{6x + 7y}$$

- 4) Find the equatio through the poi

$$\underline{5x + 4y = -5}$$

- 5) Find the equation of the line that is perpendicular to the line joining the points  $(-2, 8)$  and  $(4, 9)$  and passes through the point  $(1, -1)$ .

$$\underline{6x + y = 5}$$

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to the line  $s$  whose $y + 15 = 0$  and passes