

## Parallel and Perpendicular Lines

Sheet 3

- 1) A line  $p$  passing through the point  $(-1, -1)$  and parallel to the line  $q$  which has a slope of  $-5$ . Find the equation of the line  $p$ .

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- 2) Write the equation of the line that is parallel to the line  $5 = 4y - 9x$  and passes through the point  $(-6, 2)$ .

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- 3) Find the equation of the line that is perpendicular to the line  $n$  whose equation is  $2x - 3y = 6$  and passes through the point  $(-6, 2)$ .

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- 4) Write the equation of the line that is parallel to the line  $m$  whose equation is  $7x = 2$  and passes through the point  $(-6, 2)$ .

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- 5) The line  $l$  passes through the point  $(1, 7)$  and parallel to the line  $m$  whose slope is  $9$ . Find the equation of the line  $l$ .

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

Sheet 3

- 1) A line  $p$  passing through the point  $(-1, -1)$  and parallel to the line  $q$  which has a slope of  $-5$ . Find the equation of the line  $p$ .

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

- 2) Write the equation of the line that is parallel to the line  $5 = 4y - 9x$  and passes through the point  $(-2, 3)$ .

$$\underline{9x - 4y = 26}$$

- 3) Find the equation of the line that is perpendicular to the line  $n$  which has the equation  $3x - 6y = 12$  and passes through the point  $(-6, 2)$ .

$$\underline{7x - y = 42}$$

- 4) Write the equation of the line that is perpendicular to the line  $l$  which has the equation  $7x = 2$  and passes through the point  $(-2, 3)$ .

$$\underline{8x + 7y = -20}$$

- 5) The line  $l$  passes through the point  $(1, 7)$  and parallel to the line  $m$  whose slope is  $9$ . Find the equation of the line  $l$ .

$$\underline{9x - y = 2}$$

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