

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 .

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

- 3) Find the equation of the line that is perpendicular to the line n which has the equation $2x + 3y = 12$.

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

- 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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-6) and perpendicular

$7x = 2$ and passes

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 $(-2, 3)$.

$$\underline{8x + 7y = 23}$$

- 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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