

Parallel and Perpendicular Lines

Sheet 4

- 1) A line p passing through the point $(-6, 1)$ is perpendicular to the line q that cuts the x and y axis at $x = 7$ and $y = 2$. Find the equation of the line p .

- 2) Find the equation of the line passing through the point $(8, 4)$ and parallel to the line which has a

- 3) Find the equation of the line passing through the point $(-2, 3)$ and perpendicular to the line $4x + 3y = 0$ and passes through the point $(1, 2)$.

- 4) Find the equation of the line passing through the point $(-1, 2)$ and perpendicular to the line joining the points $(-2, 3)$ and $(1, 1)$.

- 5) Find the equation of the line passing through the point $(7, 4)$ and perpendicular to the line $y = \frac{6}{7}x + 9$.

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Answer key**Parallel and Perpendicular Lines**

Sheet 4

- 1) A line p passing through the point $(-6, 1)$ is perpendicular to the line q that cuts the x and y axis at $x = 7$ and $y = 2$. Find the equation of the line p .

$$\underline{7x - 2y = -44}$$

- 2) Find the equation of the line passing through the point $(8, 4)$ and parallel to the line which has a

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

- 3) Find the equation of the line passing through the point $(-2, 3)$ and perpendicular to the line $4x + 3y = 0$ and passes

$$\underline{2x - 3y}$$

- 4) Find the equation of the line passing through the point $(-1, 2)$ and perpendicular to the line joining $(-3, 1)$ and $(1, -3)$ and perpendicular

$$\underline{x + 2y = -1}$$

- 5) Find the equation of the line passing through the point $(7, 4)$ and perpendicular to the line $y = \frac{6}{7}x + 9$.

$$\underline{7x + 6y = 73}$$

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