

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 $(-4, -2)$.

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

- 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

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

- 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