

Parallel and Perpendicular Lines

Sheet 2

- 1) Find the equation of the line that is perpendicular to the line $y = -3x + 1$ and passes through the point $(6, -4)$.

- 2) Find the equation of the line passing through the point $(-9, 1)$ and parallel to the line $x - \frac{1}{6}y = -3$

- 3) A line u passing through the point $(-2, 3)$ and parallel to the line v that cuts the x-axis at $x = 4$ and the y-axis at $y = 6$.

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

- 5) The slope of a line l is $-\frac{1}{7}$ and is perpendicular to the line m that passes through the point $(-3, -5)$. Find the equation of the line m .

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Parallel and Perpendicular Lines

Sheet 2

- 1) Find the equation of the line that is perpendicular to the line $y = -3x + 1$ and passes through the point $(6, -4)$.

$$x - 3y = 18$$

- 2) Find the equation of the line passing through the point $(-9, 1)$ and parallel to the line $x - \frac{1}{6}y = -3$

$$6x - y = -54$$

- 3) A line u passing through the point $(-2, 3)$ and parallel to the line v that cuts the x-axis at $x = 2$ and the y-axis at $y = 3$.

$$5x + 4y = 14$$

- 4) Find the equation of the line joining the point $(-2, 3)$ and parallel to the line $3x + 2y - 20 = 0$

$$3x + 2y - 20 = 0$$

- 5) The slope of a line l is $-\frac{1}{7}$ and is perpendicular to the line m that passes through the point $(-3, -5)$. Find the equation of the line m .

$$7x - y = -16$$

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