

Parallel and Perpendicular Lines

Sheet 5

- 1) A line v passing through the point $(-9, -1)$ and parallel to the line w which has a slope of -3 . Find the equation of the line v .

- 2) Write the equation of the line that is perpendicular to the line $-3x + 21y + 24 = 0$ and passes thro

- 3) The line r passe slope is $\frac{7}{6}$. Find _____ to the line s whose

- 4) Find the equatio through the poi _____ $y + 15 = 0$ and passes

- 5) Find the equation of the line that is perpendicular to the line joining the points $(-2, 8)$ and $(4, 9)$ and passes through the point $(1, -1)$.

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Answer key**Parallel and Perpendicular Lines**

Sheet 5

- 1) A line v passing through the point $(-9, -1)$ and parallel to the line w which has a slope of -3 . Find the equation of the line v .

$$\underline{3x + y = -28}$$

- 2) Write the equation of the line that is perpendicular to the line $-3x + 21y + 24 = 0$ and passes through the point $(-1, 2)$.

$$\underline{7x + y = 9}$$

- 3) The line r passes through the point $(-2, 3)$ and is perpendicular to the line s whose equation is $2x - 3y + 12 = 0$. Find the equation of the line r .

$$\underline{6x + 7y = 10}$$

- 4) Find the equation of the line that is perpendicular to the line $3x - 4y + 15 = 0$ and passes through the point $(-1, 2)$.

$$\underline{5x + 4y = -6}$$

- 5) Find the equation of the line that is perpendicular to the line joining the points $(-2, 8)$ and $(4, 9)$ and passes through the point $(1, -1)$.

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

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