

Parallel and Perpendicular Lines

Sheet 2

- 1) The line u passing through the point $(6, 8)$ and perpendicular to the line v whose slope is $\frac{3}{5}$. Find the equation of the line u .

- 2) Find the equation of the line that is parallel to the line $7x - y + 3 = 0$ and passes through the point $(-2, 4)$.

- 3) Write the equation of the line that is perpendicular to the line $4x - 8y + 16 = 0$ and passes through the point $(-2, 4)$.

- 4) The line m passing through the point $(-2, 4)$ and perpendicular to the line n which has a slope of $-\frac{1}{2}$. Find the equation of the line m .

- 5) Find the equation of the line that is perpendicular to the line $2x + 3y + 5 = 0$ and passes through the point $(2, -4)$.

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Answer key**Parallel and Perpendicular Lines**

Sheet 2

- 1) The line u passing through the point $(6, 8)$ and perpendicular to the line v whose slope is $\frac{3}{5}$. Find the equation of the line u .

$$\underline{5x + 3y = 54}$$

- 2) Find the equation of the line that is parallel to the line $7x - y + 3 = 0$ and passes through the point $(-2, 1)$.

$$\underline{7x - y = 13}$$

- 3) Write the equation of the line that is perpendicular to the line $4x + 8y + 16 = 0$ and passes through the point $(-2, 1)$.

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

- 4) The line m passing through the point $(-2, 1)$ and perpendicular to the line n which has a slope of $-\frac{1}{6}$. Find the equation of the line m .

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

- 5) Find the equation of the line that is perpendicular to the line $2x + 3y + 5 = 0$ and passes through the point $(2, -4)$.

$$\underline{3x - 2y = 14}$$

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