

Name : _____

Parallel and Perpendicular Lines

Sheet 3

- 1) Equation of a line p is $y = gx - 4$. Equation of a line q is $y = 5x - 8$. The lines p and q are parallel. Find the value of g .

$g =$ _____

- 2) The lines m and n are perpendicular whose equations are $9y - x = 9$ and $y = bx - 2$ respectively. Find the value of b .

$b =$ _____

- 3) The lines $4y = -7x$

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ue of k .

$k =$ _____

- 4) If the lines $y = nx$

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e value of n .

$n =$ _____

- 5) The line $-6x - 4 + y = 0$ is perpendicular to the line $y - tx + 1 = 0$. Find the value of t .

$t =$ _____

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Answer Key

Sheet 3

Parallel and Perpendicular Lines

- 1) Equation of a line p is $y = gx - 4$. Equation of a line q is $y = 5x - 8$. The lines p and q are parallel. Find the value of g .

$$g = \underline{\quad 5 \quad}$$

- 2) The lines m and n are perpendicular whose equations are $9y - x = 9$ and $y = bx - 2$ respectively. Find the value of b .

$$b = \underline{\quad -9 \quad}$$

- 3) The lines $4y = -7x$

$$k = \underline{\quad \frac{7}{4} \quad}$$

- 4) If the lines $y = nx$

$$n = \underline{\quad 1 \quad}$$

- 5) The line $-6x - 4 + y = 0$ is perpendicular to the line $y - tx + 1 = 0$. Find the value of t .

$$t = \underline{\quad -\frac{1}{6} \quad}$$

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