

Name : _____

Parallel and Perpendicular Lines

Sheet 4

- 1) The lines $y = \frac{k}{3}x - 4$ and $y - 7x - 21 = 0$ are perpendicular. Find the value of k .

$k =$ _____

- 2) If the lines $y - ix = -12$ is parallel to the line $4x - y + 4 = 0$, find the value of n .

$n =$ _____

- 3) The lines l and m are perpendicular. Equation of line l is $3x - 5y = -8$ and $10x - 5y = -8$ respectively. Find the value of d .

$d =$ _____

- 4) The line $y - sx = -7$ is perpendicular to the line $2x + 3y = 10$. Find the value of s .

$s =$ _____

- 5) Equation of a line f is $y = hx + 9$. Equation of a line g is $5y - x - 6 = 0$. The lines f and g are perpendicular. Find the value of h .

$h =$ _____

PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

www.mathworksheets4kids.com

Name : _____

Answer Key

Parallel and Perpendicular Lines

Sheet 4

- 1) The lines $y = \frac{k}{3}x - 4$ and $y - 7x - 21 = 0$ are perpendicular. Find the value of k .

$$k = \underline{-\frac{3}{7}}$$

- 2) If the lines $y - ix = -12$ is parallel to the line $4x - y + 4 = 0$, find the value of n .

$$n = \underline{4}$$

- 3) The lines l and m are perpendicular. Equation of line l is $5x - 2y = 10$ and $10x - 5y = -8$ respectively. Find the value of d .

$$d = \underline{-\frac{1}{2}}$$

- 4) The line $y - sx = -7$ is perpendicular to the line $2x - 3y = 12$. Find the value of s .

$$s = \underline{\frac{2}{5}}$$

- 5) Equation of a line f is $y = hx + 9$. Equation of a line g is $5y - x - 6 = 0$. The lines f and g are perpendicular. Find the value of h .

$$h = \underline{-5}$$

PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

www.mathworksheets4kids.com