

## Parallel and Perpendicular Lines

Sheet 5

- 1) Find the equation of the line that is parallel to the line  $y = -8x + 3$  and passes through the point  $(9, 4)$ .

---

- 2) Find the equation of the line passing through the point  $(-5, 2)$  and perpendicular to line  $x - \frac{1}{8}y = 6$ .

---

- 3) The slope of a line is  $\frac{1}{2}$  and it passes through the point  $(-4, -6)$ .

---

- 4) Find the equation of the line joining the points  $(-2, 3)$  and  $(4, -1)$  and parallel to the line  $y = 2x - 5$ .

---

- 5) A line  $u$  passing through the point  $(-10, 8)$  is parallel to the line  $v$  that cuts the  $x$ -axis at  $x = 5$  and  $y$ -axis at  $y = 7$ . Find the equation of the line  $u$ .

---

# PREVIEW

Access the largest collection of  
worksheets for just **\$19.95** per year!

Members, please  
log in to  
download this  
worksheet.

Log in

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

Sign up

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

## Parallel and Perpendicular Lines

Sheet 5

- 1) Find the equation of the line that is parallel to the line  $y = -8x + 3$  and passes through the point  $(9, 4)$ .

$$\underline{8x + y = 76}$$

- 2) Find the equation of the line passing through the point  $(-5, 2)$  and perpendicular to line  $x - \frac{1}{8}y = 6$ .

$$\underline{x + 8y = 40}$$

- 3) The slope of a line is  $-\frac{1}{2}$  and it passes through the point  $(-4, -6)$ .

$$\underline{x + 6y = -22}$$

- 4) Find the equation of the line joining the points  $(-1, 2)$  and  $(3, -1)$  and parallel to the line  $2x + 3y = 12$ .

$$\underline{x + 2y = -11}$$

- 5) A line  $u$  passing through the point  $(-10, 8)$  is parallel to the line  $v$  that cuts the  $x$ -axis at  $x = 5$  and  $y$ -axis at  $y = 7$ . Find the equation of the line  $u$ .

$$\underline{7x + 5y = -30}$$

# PREVIEW

Access the largest collection of  
worksheets for just **\$19.95** per year!

Members, please  
log in to  
download this  
worksheet.

**Log in**

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

**Sign up**

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)