



## Perpendicular Lines

Math Blast



Name

Score

Solve and show all steps.

Find the equation of a line that is perpendicular to  $y = -3x + 1$  and passes through the point  $(5, 7)$ .

Show all steps here

Find the equation of a line that is perpendicular to  $y = 1/4x - 8$  and passes through the point  $(-4, 2)$ .

Show all steps here

Find the equation of a line that is perpendicular to  $2x + y = 6$  and passes through the point  $(1, -4)$ .

Show all steps here

Find the equation of a line that is perpendicular to the  $x$ -axis and passes through the point  $(-9, 6)$ .

Show all steps here

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

Show all steps here



Solve and show all steps.

$$y = \frac{1}{3}x + \frac{16}{3}$$

$$y = -4x - 14$$

$$y = \frac{1}{2}x - \frac{9}{2}$$

$$x = -9$$

$$y = 3$$