

Finding the equation of a straight line

45

Name: _____



Find the equation of a line with:

a) gradient 2 passing through the point (4, 6)

$$y = 2x - 2$$

b) gradient 5 passing through the point (2, 15)

$$y = 5x + 5$$

c) gradient 5 passing through the point (2, 3)

$$y = 5x - 7$$

d) gradient 3 passing through the point (1, 3)

$$y = 3x$$

e) gradient 7 passing through the point (1, -9)

$$y = 7x - 16$$

f) gradient -4 passing through the point (-4, 7)

$$y = -4x - 9$$

Find the equation of a line that passes through the points:

a) (1,1) and (3, 5)

$$y = 2x - 1$$

b) (3,1) and (1, 7)

$$y = -3x + 10$$

c) (3,9) and (1, 5)

$$y = 2x + 3$$

d) (4,-2) and (6, 8)

$$y = 5x - 22$$

e) (-3,12) and (1, 8)

$$y = -x + 9$$

Exam question:

A straight line, L, passes through the point with coordinates (3, 10)

It has a gradient of 4.

Find an equation of the straight line L in the form $y = mx + c$

$$y = 4x - 2$$

