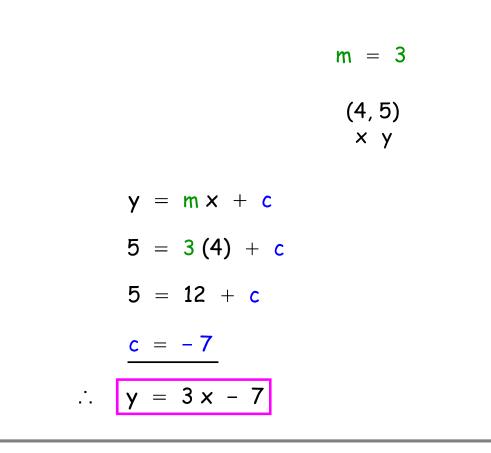




Find the equation of the straight line with gradient 3 and passing through the point (4, 5).



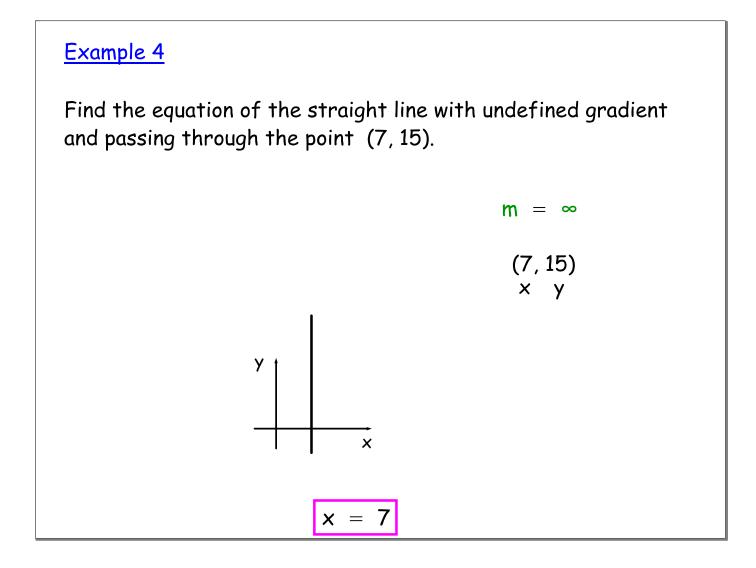
. .

## Example 2

Find the equation of the straight line with gradient 1/2 and passing through the point (-6, 3).

m = 1/2 (-6,3) x y y = m x + c 3 = 1/2 (-6) + c 3 = -3 + c c = 6  $y = \frac{1}{2} x + 6$ 

## Example 3 Find the equation of the straight line with gradient 0 and passing through the point (7, 15). $\mathbf{m} = \mathbf{0}$ (7, 15) ху y = m x + c15 = 0(7) + c15 = 0 + cc = 15 Y $\gamma = 15$ . . x



Find the equations of the straight lines with gradient and point :

1) 
$$m = 2, (3, 4)$$
9)  $m = 1/3, (9, -2)$ 2)  $m = -1, (3, 5)$ 10)  $m = 3/4, (-16, 0)$ 3)  $m = 10, (-1, 4)$ 11)  $m = 7, (2, 14)$ 4)  $m = -3, (7, 11)$ 12)  $m = -3, (3, -9)$ 5)  $m = 8, (8, 8)$ 13)  $m = 1/5, (1, 3/5)$ 6)  $m = 0, (2, 3)$ 14)  $m = 7/11, (2, 3)$ 7)  $m = \infty, (-6, 1)$ 15)  $m = -3/16, (4, -3/4)$ 8)  $m = 1/2, (4, 3)$ 16)  $m = -51, (1/17, -8)$ 

Find the equations of the straight lines with gradient and point : 1) m = 2,  $(3, 4)^{y} = 2x - 2$ 2) m = -1,  $(3, 5)^{y} = -x + 8$ 3) m = 10,  $(-1, 4)^{y} = 10x + 14$ 4) m = -3,  $(7, 11)^{y} = -3x + 32$ 4) m = -3,  $(7, 11)^{y} = -3x + 32$ 5) m = 8,  $(8, 8)^{y} = 3$ 6) m = 0,  $(2, 3)^{y} = 3$ 7)  $m = \infty$ ,  $(-6, 1)^{x} = -6$ 8) m = 1/2,  $(4, 3)^{y} = 1/2x + 1$ 1) m = 7,  $(2, 14)^{y} = 7x$ 10) m = 3/4,  $(-16, 0)^{y} = 3/4x + 12$ 10) m = 3/4,  $(-16, 0)^{y} = -3x$ 11) m = 7,  $(2, 14)^{y} = 7x$ 12) m = -3,  $(3, -9)^{y} = 1/5x + 2/5$ 13) m = 1/5,  $(1, 3/5)^{y} = 1/5x + 2/5$ 14) m = 7/11,  $(2, 3)^{y} = 7/11x + 19/11$ 14) m = 7/11,  $(2, 3)^{y} = -3/16x$ 15) m = -3/16,  $(4, -3/4)^{y} = -51x - 5$ 16) m = -51,  $(1/17, -8)^{y}$