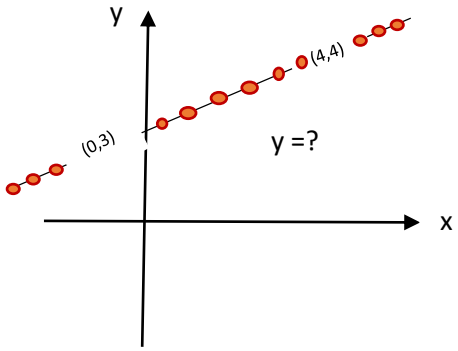
Tanget – a line



The equation of the line

A (0,3) B(4,4)

(a) Find the slope

$a = \frac{4-3}{4-0} = \frac{1}{4}$

(b) (0,3) $a = \frac{1}{4}$

$y + 3 = \frac{1}{4}x \Rightarrow y = \frac{1}{4}x - 3$

Given parabola $y = x^2 - 4x$, and Point B(2,-4)

Find the equation of the tanget through B

$y^{l} = 2x - 4$, the slope of any point (parabola)

$y^{l}(2) = 2.2 - 4 = 0$, the slope of tanget

B (2, - 4)

The tanget is Y = - 4