12	Below is a faulty argument that appears to show that the gradient of the curve $y = x^2$ at the point $(3, 9)$ is 1.	
	Consider the chord joining $(3, 9)$ to the point $(3+h, (3+h)^2)$	

The gradient is $\frac{(3+h)^2-9}{h} = \frac{6h+h^2}{h}$ When h = 0 the gradient is $\frac{0}{0}$ so the gradient of the curve is 1

Find the equation of the normal to the curve at the point (3, 9).

[1]

[2]