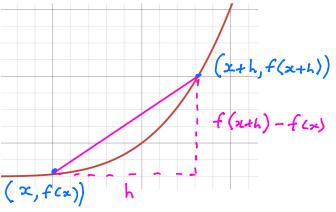
## Differentiation From First Principles Exercise

The derivative of

$$f(x)$$
 written as  $f'(x)$ 

is defined to be:

 $f'(x) = \lim_{h \to 0} \frac{f(x+h) - f(x)}{h}$ 



## Exercise Differentiate from first principles:

$$1) \quad f(x) = 6x^{5}$$

2) 
$$f(x) = x^2 + 3x + 5$$