

# Calculus

First Principles!

**Question**

$$f(x) = 1 - 2x + x^2$$

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

replace  $x$  for  $(x+h)$

$$\begin{aligned} f(x+h) &= 1 - 2(x+h) + (x+h)^2 \\ &= 1 - 2x - 2h + x^2 + xh + xh + h^2 \\ &= 1 - 2x - 2h + x^2 + h^2 + 2xh \end{aligned}$$

simplify

don't forget  $f(x)$

$$f'(x) = \lim_{h \rightarrow 0} \frac{(1 - 2x - 2h + x^2 + h^2 + 2xh) - (1 - 2x + x^2)}{h}$$

subs into big formula

$$\lim_{h \rightarrow 0} \frac{(1 - 2x - 2h + x^2 + h^2 + 2xh) - 1 + 2x - x^2}{h}$$

simplify

$$\lim_{h \rightarrow 0} \frac{\cancel{1} - \cancel{2x} - 2h + x^2 + h^2 + 2xh - \cancel{1} + \cancel{2x} - \cancel{x^2}}{h}$$

factorise to cancel

$$\lim_{h \rightarrow 0} \frac{-2h + h^2 + 2xh}{h}$$

$$\lim_{h \rightarrow 0} \frac{\cancel{h}(-2 + h + 2x)}{\cancel{h}}$$

substitute 0 for  $h$  (limit)

$$f'(x) = -2 + 2x$$

check using shortcut of first derivative

**Notes**

{ Process

# Grade 12 Maths Explor

**Wenbin Ji**



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