

2142

$$y = x^2 + 2x$$

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

$$f(a+h) = (a+h)^2 + 2(a+h)$$

$$f(a) = a^2 + 2a$$

$$\begin{array}{r} (a+h)(a+h) + 2a + 2h - a^2 - 2a \\ \cancel{a^2} + 2ah + h^2 + \cancel{2a} + 2h - \cancel{a^2} - \cancel{2a} \\ \hline 2ah + h^2 + 2h \\ \hline h \end{array}$$

$$\frac{h(2a+h+2)}{h}$$

→ 0

$$2a + 2$$

Ⓟ