

Evaluación funciones

$$1 f(x) = 1^2 + 3 \cdot 1 - 1$$
$$f(x) = 1 + 3 - 1$$
$$f(x) = 3$$

$$f(x) = 0^2 + 3 \cdot 0 - 1$$
$$f(x) = 0 + 3 - 1$$
$$f(x) = -1$$

$$2 f(x) = \frac{0}{2} + 1 = 1$$

$$f(x) = \frac{1}{2} + 1$$

$$f(x) = \frac{1}{2} + 1 = 1 \frac{1}{2}$$
$$\frac{5}{4}$$

$$f(x) = \frac{5}{2}$$

3 Evalúe $f(a+h) - f(a)$ donde $f(x) = x^2$

$$f = (a+h)^2 - f \cdot (a)^2$$

$$f(a+h) - f(a)$$

$$f \cdot a + h^2 - f \cdot a^2$$

$$\frac{(ah + h^2)}{2a} = 2ah + h^2$$

$$(a+h)^2$$

$$\begin{array}{r} a+h \\ a+h \\ \hline ah+h^2 \end{array}$$

4 Evalué $f\left(\frac{a}{h}\right) + f(a)$ donde $f(x) = x + 2$

$$f\left(\frac{a}{h}\right) + f(a)$$

$$f\left(\frac{a}{h}\right) + 2 + f(a) + 2$$

$$f\left(\frac{a^2}{h^2}\right) + f(a^2)$$

$$\frac{a^2 + a^2}{h^2} = \frac{4}{h^2}$$

$$a\left(\frac{1}{h} + 1\right) + 4$$