

1. Given $2x^2 - x$, find the following and simplify:

(a) $f(x+h)$

$$\begin{aligned} f(x+h) &= 2(x+h)^2 - (x+h) \\ &= 2(x+h)(x+h) - x - h \\ &= 2(x^2 + 2xh + h^2) - x - h \\ &= \boxed{2x^2 + 4xh + 2h^2 - x - h} \end{aligned}$$

(b) $f(x+h) - f(x)$

$$\begin{aligned} &2x^2 + 4xh + 2h^2 - x - h - (2x^2 - x) \\ &= \cancel{2x^2} + 4xh + 2h^2 - \cancel{x} - h - \cancel{2x^2} + \cancel{x} \\ &= \boxed{4xh + 2h^2 - h} \end{aligned}$$

(c) $\frac{f(x+h) - f(x)}{h}$

$$\begin{aligned} &\frac{4xh + 2h^2 - h}{h} \\ &= \cancel{h}(4x + 2h - 1) \\ &= \boxed{4x + 2h - 1} \end{aligned}$$

(d) If you let $h = 0$, what do you get from your answer in part (c)?

$$4x + 0 - 1 = \boxed{4x - 1}$$

2. Given $3x^2 - 5x - 4$, find the following and simplify:

(a) $f(x+h)$

$$\begin{aligned} f(x+h) &= 3(x+h)^2 - 5(x+h) - 4 \\ &= 3(x+h)(x+h) - 5x - 5h - 4 \\ &= 3(x^2 + 2xh + h^2) - 5x - 5h - 4 \\ &= \boxed{3x^2 + 6xh + 3h^2 - 5x - 5h - 4} \end{aligned}$$

(b) $f(x+h) - f(x)$

$$\begin{aligned} &3x^2 + 6xh + 3h^2 - 5x - 5h - 4 \\ &- (3x^2 - 5x - 4) \\ &= \cancel{3x^2} + 6xh + 3h^2 - \cancel{5x} - 5h - \cancel{4} \\ &\quad - \cancel{3x^2} + \cancel{5x} + \cancel{4} \\ &= \boxed{6xh + 3h^2 - 5h} \end{aligned}$$

(c) $\frac{f(x+h) - f(x)}{h}$

$$\begin{aligned} &\frac{6xh + 3h^2 - 5h}{h} \\ &= \cancel{h}(6x + 3h - 5) \\ &= \boxed{6x + 3h - 5} \end{aligned}$$

(d) If you let $h = 0$, what do you get from your answer in part (c)?

$$6x + 3(0) - 5 = \boxed{6x - 5}$$

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