

Precalculus
Difference Quotient Worksheet

Name _____ Date _____ Hour _____

Answer Key

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

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

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

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

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

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

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

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

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

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Anthony S. Fauci

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