

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

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

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

$$\begin{aligned} &\left. \begin{aligned} &4xh + 2h^2 - h \\ &h \end{aligned} \right\} \\ &= \frac{4x + 2h - 1}{h} \\ &= \boxed{4x + 2h - 1} \end{aligned}$$

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

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

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

$$\begin{aligned} &\left. \begin{aligned} &-6xh - 3h^2 + 5h \\ &h \end{aligned} \right\} \\ &= \frac{-6x - 3h + 5}{h} \\ &= \boxed{-6x - 3h + 5} \end{aligned}$$

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

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Léo Pomar

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Starstruck: The Complete Four-Book Series Brenda Hiatt,2018-01-11 *Precalculus* Sheldon Axler,2017-08-21 Sheldon Axler's Precalculus A Prelude to Calculus 3rd Edition focuses only on topics that students actually need to succeed in calculus. This book is geared towards courses with intermediate algebra prerequisites and it does not assume that students remember any trigonometry. It covers topics such as inverse functions, logarithms, half life, and exponential growth area e the exponential function, the natural logarithm, and trigonometry.

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Radiative Neutron Capture Sergey Borisovich Dubovichenko,2019-02-19 The work provides an overview on modern nuclear astrophysics by summarizing recent achievements in studies of light nuclei and thermonuclear processes at low and ultralow energies in the Universe. Special focus lies on mathematical methods and computer programs for calculating nuclear characteristics for thermonuclear reactions.

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