

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

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

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

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

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

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

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

Novel Stars Pre Calc Answers

Annelies Wilder-Smith

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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.

[Universal Relations for Binary Neutron Star Mergers with Long-lived Remnants](#) Praveen Manoharan,2022-03-28

In the last 25 years an extensive body of work has developed various equation of state independent or approximately universal relations that allow for the inference of neutron star parameters from gravitational wave observations. These works however have mostly been focused on singular neutron stars while our observational efforts at the present and in the near future will be focused on binary neutron star BNS mergers. In light of these circumstances the last five years have also given rise to more attempts at developing universal relations that relate BNS pre merger neutron stars to stellar parameters of the post merger object mostly driven by numerical relativity simulations. In this thesis a first attempt at perturbatively deriving universal relations for binary neutron star mergers with long lived neutron star remnants is presented. The author succeeds in confirming previous results relating pre merger binary tidal deformabilities to the f mode frequency of the post merger object. Combining this result with recent advances of computing the f mode frequency of fast rotating neutron stars he also derives a combined relation that relates the pre merger binary tidal deformability of a BNS to the effective compactness of a long lived neutron star remnant. Finally he also proposes a direct relation between these quantities with improved accuracy.

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.

Breakthrough to Math Stephanie Irwin, New Readers Press, 1993-03

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