

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)?

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Terry C. Jones

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Book Bulletin Chicago Public Library, 1912 **Lone Star Millionaire (Worlds Most Eligible Bachelors, Book 4)**
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Table of Contents Novel Stars Pre Calc Answers

1. Understanding the eBook Novel Stars Pre Calc Answers
 - The Rise of Digital Reading Novel Stars Pre Calc Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Novel Stars Pre Calc Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Novel Stars Pre Calc Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Novel Stars Pre Calc Answers
 - Personalized Recommendations
 - Novel Stars Pre Calc Answers User Reviews and Ratings
 - Novel Stars Pre Calc Answers and Bestseller Lists
5. Accessing Novel Stars Pre Calc Answers Free and Paid eBooks
 - Novel Stars Pre Calc Answers Public Domain eBooks
 - Novel Stars Pre Calc Answers eBook Subscription Services

- Novel Stars Pre Calc Answers Budget-Friendly Options
- 6. Navigating Novel Stars Pre Calc Answers eBook Formats
 - ePUB, PDF, MOBI, and More
 - Novel Stars Pre Calc Answers Compatibility with Devices
 - Novel Stars Pre Calc Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Novel Stars Pre Calc Answers
 - Highlighting and Note-Taking Novel Stars Pre Calc Answers
 - Interactive Elements Novel Stars Pre Calc Answers
- 8. Staying Engaged with Novel Stars Pre Calc Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Novel Stars Pre Calc Answers
- 9. Balancing eBooks and Physical Books Novel Stars Pre Calc Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Novel Stars Pre Calc Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Novel Stars Pre Calc Answers
 - Setting Reading Goals Novel Stars Pre Calc Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Novel Stars Pre Calc Answers
 - Fact-Checking eBook Content of Novel Stars Pre Calc Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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