

Math 1 2021/22
Unit 1A: Procedures Assignment

Name: _____

Total Marks: _____/20

All questions are worth more than 1 mark, show all calculations and steps to receive full marks.

1. Given $f(x) = 3x^2 + 4x - 5$ and $g(x) = 2x^2 - 3x + 1$, determine the following. Simplify all answers and state any variable restrictions.

a. $\left(\frac{f}{g}\right)(x) = \frac{f(x)}{g(x)} = \frac{3x^2 + 4x - 5}{2x^2 - 3x + 1} = \frac{(3x - 1)(x + 5)}{(2x - 1)(x - 1)} = \frac{(3x - 1)(x + 5)}{(2x - 1)(x - 1)}$ (4 marks)
 Domain: $\{x \in \mathbb{R} \mid x \neq 1, x \neq \frac{1}{2}\}$
 Range: $\{y \in \mathbb{R} \mid y \neq \frac{3}{2}, y \neq \frac{5}{1}\}$

b. $\left(\frac{f}{g}\right)(x) = \frac{f(x)}{g(x)} = \frac{3x^2 + 4x - 5}{2x^2 - 3x + 1} = \frac{(3x - 1)(x + 5)}{(2x - 1)(x - 1)} = \frac{(3x - 1)(x + 5)}{(2x - 1)(x - 1)}$ (4 marks)
 Domain: $\{x \in \mathbb{R} \mid x \neq 1, x \neq \frac{1}{2}\}$
 Range: $\{y \in \mathbb{R} \mid y \neq \frac{3}{2}, y \neq \frac{5}{1}\}$

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Denise Szecsei



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Barron's Educational Series, Lawrence S. Leff, Christina Pawlowski-Polanish, 2021-09-07 Previously published under the titles Precalculus the easy way and E Z precalculus **A Graphical Approach to Precalculus with Limits** John

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Schneider, 2012-02-28 Precalculus Fifth Edition by Lial Hornsby Schneider and Daniels engages and supports students in the learning process by developing both the conceptual understanding and the analytical skills necessary for success in mathematics With the Fifth Edition the authors adapt to the new ways in which students are learning as well as the ever changing classroom environment <http://www.pearsonhighered.com/lialprecalculusinfo>

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