

# Math 2215 - Calculus 1

Quiz #23 - 2017.12.07

Name: \_\_\_\_\_

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For the function  $f(x) = \frac{2x^2 + 1}{x^2 - 1}$ , determine each of the following (if they exist):

- (a) the domain
- (b) roots
- (c)  $y$ -intercept
- (d) vertical asymptotes and the functions behaviour on each side of said asymptotes
- (e) horizontal asymptote