

# Math 2143 - Brief Calculus with Applications

Quiz #7 - 2008.03.10

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

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Consider the function

$$f(x) = \frac{x + \frac{1}{2}}{x^2 + 2}.$$

1. Find all the critical points of  $f(x)$ .
2. Determine the intervals of increase and decrease for  $f(x)$ .
3. Classify each critical point as local max, local min or neither.