

MATH 101-1901-Sec 16

Quiz # 02

Name:

ID:

Note: No credit for answers with out justification.

1. Find the domain of continuity of the following function. Also find the type of discontinuity, if any.

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

2. Find the derivative by using the definition of derivative. Also find the domain of f and f' .

$$f(x) = \sqrt{6 - x}$$

3. Find the horizontal asymptotes of the following function, if they exist.

$$f(x) = \sqrt{4x^2 + 2x} - \sqrt{4x^2 + 6x}$$