



Quiz # 5
 Math 101-Section 01 Calculus I
 3 November 2017, Friday
 Instructor: Ali Sinan Sertöz
Solution Key



Bilkent University

Your Name:

Your Student ID:

Q-1) Consider the function $f(x) = \frac{x^2 + 1}{x + 1}$.

Fill in the following boxes if the required information exists; otherwise put a cross \times in the box.
 (Each correct answer is 1 point each. The plot is 2 points.)

Horizontal asymptote is $y =$. Vertical asymptote is $x =$.

Slant asymptote is $y =$ $x +$

Local minimum is at $x =$. Local maximum is at $x =$

The graph of $y = f(x)$ is concave up on the interval

The graph of $y = f(x)$ is concave down on the interval

Roughly sketch the graph of $y = f(x)$.

