

Name: _____

MATH 111-I

Spring 2025

Quiz 5

Problem 1: Consider the quadratic function $f(x) = 3 - 6x - x^2$.

- (a) Find a, b, c from the standard form for $f(x)$.
- (b) Does the graph of $f(x)$ open upwards or downwards? Explain.
- (c) Find the vertex and axis of symmetry for $f(x)$.