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).