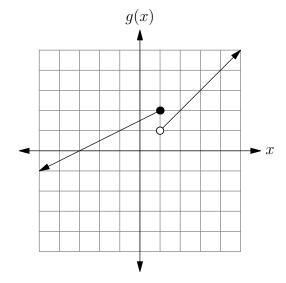
NAME:

1. (6 points) Define the function $f(x) = 2x - 3x^2$. Simplify the following difference quotient.

$$\frac{f(x+h) - f(x)}{h}$$

2. (8 points) Write the formula for the piecewise function g(x) shown in the graph.



3. (6 points) The following graph shows a function f(x). Estimate the rate of change for this function over the interval x = -1 to x = 2.

