Print Name: _____ Circle Section Time: 10 or 11

Math 1100 **Quiz 8** **NO CALCULATORS**

1. [5 points] Graph $y = x^2 + x + 1$. Label four points, including the vertex and any x- or y-intercepts. What is the minimum value?

2. [5 points] If a ball is thrown directly upward with a velocity of 40 ft/sec, its height (in feet) after t seconds is given by $y = 40t - 16t^2$. What is the maximum height attained by the ball?

3. [5 points] Find the average rate of change for $f(x) = x^2$ from $x = 1$ to $x = 4$. Hint: the formula is based on the slope of a secant line.