Name_____

Student I.D._____

Math 2250-1
Quiz 2
August 31, 2012

1) Consider the differential equation for $x(t)$:
$$x'(t) = -4x + 80.$$
a) Is this differential equation separable, linear, neither separable nor linear, or both? Explain.

(2 points)

b) Solve the following initial value problem:
$$x'(t) = -4x + 80$$
$$x(0) = 15.$$

(8 points)