Spring 2015 Calculus I Russell Brown MA 113:011-015

1. Let $f(x) = \cos(x)$ and $g(x) = x \cos(x^2)$. Find anti-derivatives of f and g.

2. Suppose that the acceleration of an object moving along a line is a(t) = 12t meters/second². If the object is at 0 at time t = 1 second and has moved 16 meters in the positive direction after 1 second. Find its position for all times.