

## Homework 3: Even Solutions

### 6.4

8.)  $f(x) = 7 + \int_0^x \sin(t^2) dx$

12.) Maximum is @  $x = 50$ , and the value is around 500.

14.) Evaluating the integral numerically, we have  $G(-1) = -3.905$

### 6.5

10.) At 100m,  $g_{new} = 9.79969m/s^2$  At 100,000 m above the ground,  $g_{new} = 9.5m/s^2$