**Problem Set 2      Calc 2      Due 2/21/2003**

Each problem is worth 5 points.  For full credit provide complete justification for your answers.

1. Set up an integral for the volume of the solid obtained by rotating the region bounded by $y = x$ and $y = 4x - x^2$ around the axis $x = 7$.

2. Do problem #8 in Stewart 6.4.

3. Do problem #22 in Stewart 6.4.

4. Do problem #14 in Stewart 6.5.