Homework 4

1. Problems on velocity, acceleration, displacement: the first 5 (out of 8) homework questions of Section 6.1 on MyMathLab.

2. Problems on substitution rule: 12 homework questions of Section 5.5 on MyMathLab.

3. Use Mathematica to draw the following curves. Then compute the arc length using definite integral:

   (a) $y = x^{\frac{3}{2}}$, $x \in [1, 4]$.
   (b) $y = x^3 + \frac{1}{12x}$, $x \in [1, 2]$.