

Math 181
Fall, 2008

Name _____

Homework #4

Due Monday, September 15

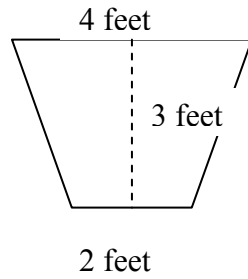
No late papers accepted! No excuses!

1. Consider the region bounded by the graphs of the equations $y = x\sqrt{x+1}$ and $y = 0$. Find the volume of the solid generated by revolving the region about
 - a) the x-axis

b) the y-axis

2. Determine the fluid force on the vertical side of the tank, where the dimensions are given in feet. Assume that the tank is full of water weighing 62.4 pounds per cubic foot.

a) trapezoid



b) triangle

