MATH 31, LECTURE 11

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Today was a review for the first Exam. (Yesterday was, too.) Here are two of the questions I was asked:

Example. Evaluate

$$\int x^3\sqrt{x^2+1}\,dx.$$

Example. Find the volume of the solid generated by rotating the region bounded by

$$y = -x^2 + 6x - 8, \qquad y = 0$$

about the x-axis.

It is easiest to use Substitution when evaluating the integral.

I answered some other questions; I don't remember what.