

Math 181
Fall, 2008

Name _____

Homework #6
Due Wednesday, September 24
No late papers accepted! No excuses!

1. Evaluate each integral.

a) $\int \frac{8x^3 + 13x}{(x^2 + 2)^2} dx$

$$\text{b) } \int \frac{x^2 - x}{x^2 + x + 1} dx$$

c) $\int \frac{x+2}{x^2-4x} dx$

2. Find the volume of the solid generated by revolving the region bounded by $y = \frac{2x}{x^2 + 1}$, $y = 0$, $x = 0$, $x = 3$ about the x-axis.