## Quiz 6, Calculus I Dr. Graham-Squire, Spring 2013

Name: \_\_\_\_\_

1. (5 points) Find the indefinite integral (i.e. the most general antiderivative).

$$\int \left(\cos x + \frac{x^2}{x^5}\right) \, dx$$

2. (5 points) Use a Riemann sum with four subintervals evaluated at the <u>midpoint</u> (that is, calculate  $M_4$ ) to approximate the value of



3. (Extra credit: 1 point) Use an antiderivative to calculate the exact value of  $\int_{-1}^{3} (4x^2 + 1) dx$ .