

## QUIZ 13

Name \_\_\_\_\_

1. Find  $\int \left(5x - \frac{3}{e^x}\right) dx$

2. Use a right hand sum with  $n = 33$  to estimate the definite integral  $\int_0^\pi \sin(x^2) dx$

3. A ten foot ladder is leaning against a wall. The top of the ladder begins to slide down the wall at a rate of 3 ft/s. How fast is the bottom of the ladder moving away from the wall when the bottom of the ladder is 9 feet away from the base of the wall?