

## QUIZ 13

Name \_\_\_\_\_

1. Find  $\int_0^{\pi} x^2 \sin x \, dx$

2. Find the (complete) Taylor series, about zero, for the function  $f(x) = \ln(1 + 5x)$ .

3. Does the series  $\sum_{n=0}^{\infty} \frac{3^n}{(2n)!}$  converge or diverge?