

Calculus II F'16  
Exam 1

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

Make sure to show your work (answers without supporting work will receive no credit). Do not use a crib sheet, calculator, phone, etc.

1. Evaluate  $\int_0^9 \frac{dr}{1 + \sqrt{r}}$

2. Evaluate  $\int \cos^3 x \sin^2 x \, dx$

3. Evaluate  $\int \frac{x^2}{\sqrt{4-x^2}} dx$

4. Evaluate  $\int \frac{ds}{3 + e^s}$

5. Evaluate  $\int_0^{\infty} \frac{dp}{p^2 + 2p + 5}$

6. Evaluate  $\int \tan^{-1} x \, dx$

**Workspace**