

Math 1450, Honor Calculus Practice12, Fall 2015.

October 26, 2016

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

1.  $\int_1^{\infty} \frac{1}{x} dx.$

2.  $\int_1^{\infty} \frac{1}{x^2} dx.$

3.  $\int_{-\infty}^{\infty} x e^{-x^2} dx.$

4.  $\int_0^1 2x \ln(x) dx.$

$$5. \int_{-\infty}^0 \frac{1}{\sqrt{3-x}} dx.$$

$$6. \int_0^3 \frac{1}{\sqrt{3-x}} dx.$$

$$7. \int_{-2}^{\infty} \sin(x) dx.$$

$$8. \int_{e^2}^{\infty} \frac{6 \ln(x)}{x} dx.$$

$$9. \int_0^4 \frac{8x}{\sqrt{16-x^2}} dx.$$

$$10. \int_{-3}^2 \frac{1}{x^2-4} dx.$$