

Math 1450, Honor Calculus Practice14, Fall 2016.

November 7, 2016

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

1.  $\int \sqrt{x^2 + 4x + 5} dx.$

2.  $\int \frac{1}{x^2 - 2x + 1} dx.$

3.  $\int \frac{1}{x^2 - 6x + 16} dx.$

4.  $\int \frac{1}{x^2 - 2x - 1} dx.$

$$5. \int \frac{1}{x^2 - 4x + 3} dx.$$

$$6. \int \frac{1}{x^2 - 4x - 3} dx.$$

$$7. \int \frac{3x - 1}{x^2 + 10x + 28} dx.$$

$$8. \int \frac{x - 3}{(4 - 2x - x^2)^2} dx.$$

$$9. \int_0^1 \frac{x^4(1-x)^4}{1+x^2} dx.$$