

Math 1450, Honor Calculus Practice7, Fall 2016.

October 7, 2016

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

1. Calculate  $\int \frac{10x + 35}{\sqrt{x^2 + 7x - 3}} dx$

2. Calculate  $\int \frac{5x}{(x^2 - 5)^2} dx$

3. Calculate  $\int \frac{5x}{x^2 - x - 6} dx$

4. Calculate  $\int \frac{5}{x^2 - x - 6} dx$

5. Calculate  $\int \frac{e^x}{e^{2x} + 9e^x + 14} dx$

6. Calculate  $\int \frac{\cos(x)}{\sin^2(x) - 3\sin(x) - 10} dx$

7. Calculate  $\int \frac{e^x}{e^x + 1} dx$

8. Calculate  $\int \frac{e^x}{\sqrt{1 - (5e^x)^2}} dx$