

Math 1450, Honor Calculus Practice9, Fall 2016.

October 11, 2016

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

(1) Calculate  $\int 3x \ln(x^6) dx$ .

(2) Calculate  $\int x^2 e^{-4x} dx$ .

(3) Calculate  $\int 6x \cos(\pi x) dx$ .

(4) Calculate  $\int 2e^x \cos(x) dx$ .

(5) Calculate  $\int 6x \arctan(x^2) dx$ .

(6) Calculate  $\int x^3 \sin(x^2) dx$ .

(7) Calculate  $\int x^3 e^{x^2} dx$ .

(8) Calculate  $\int \frac{xe^x}{(x+1)^2} dx$ .