

Worksheet 8

MATH 1A Fall 2015

for 24 November 2015

Exercise 8.1. Find the derivatives of the following functions.

1.

$$f(x) = \int_0^x e^{t^2} dt$$

2.

$$g(x) = \int_0^{x^2} \frac{\sin t}{t} dt$$

Exercise 8.2. Find antiderivatives of the following functions.

1. $\frac{1}{1-x}$

2. $\cos(2x)$.