

Worksheet 05

MATH 16B GSI:TAO SU TU 10/03/2017

1. Determine the integrals by taking appropriate substitutions.

(a) $\int x \sec^2 x^2 dx$

(b) $\int \frac{2x+1}{\sqrt{x^2+x+3}} dx$

(c) $\int \tan x \sec^2 x dx$

2. Evaluate the integrals.

(a) $\int x^2 e^x dx$

(b) $\int \frac{\ln(\ln x)}{x} dx$

(c) $\int_1^e \ln(\sqrt{x}) dx$