

Math 106
2020-21 Summer Term
Midterm 1

1). (15 pts. each) Evaluate the given integrals by using the substitution method. Show your work

a) $\int_0^1 x^5 (1-x^3)^{1/4} dx.$

b) $\int_0^{\pi/4} \frac{\sec^2 x}{(2 \tan x + 1)^2} dx.$

Solution:

a) $I = \int_0^1 \underbrace{x^5}_{x^3 \cdot x^2} (1-x^3)^{1/4} dx$

$$u = 1-x^3 \Rightarrow \begin{cases} du = -3x^2 dx \\ -\frac{1}{3} du = x^2 dx \end{cases} \quad \begin{cases} x=0 \Rightarrow u=1 \\ x=1 \Rightarrow u=0 \end{cases}$$

$$\begin{aligned} x^3 &= 1-u \\ I &= -\frac{1}{3} \int_1^0 (1-u) u^{1/4} du = \frac{1}{3} \int_0^1 (u^{1/4} - u^{5/4}) du = \frac{1}{3} \left[\frac{u^{5/4}}{5/4} - \frac{u^{9/4}}{9/4} \right]_0^1 \\ &= \frac{16}{135} \end{aligned}$$

b) $I = \int_0^{\pi/4} \frac{\sec^2 x}{(2 \tan x + 1)^2} dx = \frac{1}{2} \int_1^3 \frac{du}{u^2} = \left[-\frac{1}{2} \frac{1}{u} \right]_1^3 = \frac{1}{3}$

$$\begin{aligned} u &= 2 \tan x + 1 \\ du &= 2 \sec^2 x dx \\ \frac{1}{2} du &= \sec^2 x dx \end{aligned} \quad \begin{cases} x=0 \Rightarrow u=1 \\ x=\pi/4 \Rightarrow u=3 \end{cases}$$

Fundamentals Of Math 106

Brendan G. Carr



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