EEE 225 - Engineering Mathematics I
(Differential Equations)
Homework 1

19th Sep, 2022

1. Find the derivative of

$$\frac{\cos 3t}{\sqrt{1 - (3t)^2}} \tag{1}$$

2. Determine

$$I(t) = \int_0^t x^2 e^{-6x} dx \tag{2}$$