

Name

ID #

Sec.#08

Q1) Evaluate the integral using a suitable substitution

$$\int_0^{\pi/2} \frac{\sin x}{\sqrt{2+3\cos x}} dx$$

Q2) Write definite integral that gives area of the region formed. Do not evaluate the integral.

(i) Between $y = x^2$, $x + y = 2$.

(ii) Between $x = y^2$, $x = y + 2$