

Subject: Session 52
Year. Month. Date. ()

SP 10/2022

1. $\int_0^{\pi/3} \sec \theta$

$$\int_0^{\pi/3} r^3 dr d\theta$$

Inner: $\frac{\sec^4 \theta}{4}$

outer $\frac{1}{4} \left(\tan \theta + \frac{\tan^3 \theta}{3} \right) \Big|_0^{\pi/3} = \frac{\sqrt{3}}{2}$