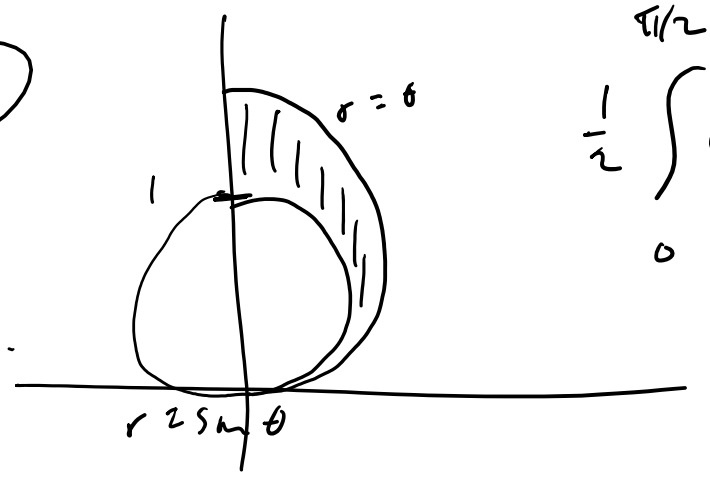
(L 3)



$$\frac{1}{2}\int_0^{\pi/2} \theta^2 - \sin^2\theta \, d\theta$$

Tuesday, May 7, 2019 9:38 AM

c) $\langle 2e^{2t}, \frac{1}{t+1} \rangle$

j) $\int_0^1 \sqrt{4e^{2t} + \frac{1}{(t+1)^2}}\, dt = 6.45^{-3}$

rect. $\int \sqrt{1 + f'(x)^2}\, dx$

para. $\int \sqrt{\left(\frac{dx}{dt}\right)^2 + \left(\frac{dy}{dt}\right)^2}\, dt$

polar $\int \sqrt{r^2 + \left(\frac{dr}{d\theta}\right)^2}\, d\theta$