Quiz 1 lecture 3 solution

400 km / 50 km

USING Sold emple

SING DO'DO'DO'D & Wexact

2) compare to the approximate

Wapprox = diskara

 $\Theta = \frac{1}{400} = 6.242 \times 10^{-2} \text{ rad}$ $W_{\text{exect}} = 2\pi \int_{0}^{6.242 \times 10^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta \int_{0}^{6.242} \frac{6.242}{16^{-2}} \sin \theta \, d\theta = -2\pi \cos \theta + 2\pi \cos \theta$

Disk area = T(5) = 17252 = 1963.5 km²

Warray = area 1983.5 = 0 12227

Wapprox = area = 1983.5 = 0.12227 400 cm/2

Wexcet - Wapprox = -0.396
Wexcet