

06/01/21
12:00

Arturo VITKUS
190 3792

Pg 6
Act 4000

Question Three

$$c) \text{ iii) } \int \frac{1}{x^2+9} dx$$

$$= \int \frac{1}{3(u^2+1)} du$$

$$= \frac{1}{3} \cdot \int \frac{1}{u^2+1} du$$

$$= \frac{1}{3} \arctan(u)$$

$$= \boxed{\frac{1}{3} \arctan\left(\frac{x}{3}\right) + C}$$