

Multivariables

Get To Know You Quiz:

Decipher Limerick:

$$\int_1^{\sqrt[3]{3}} z^2 dz \cdot \cos\left(\frac{3\pi}{9}\right) = \ln(\sqrt[3]{e})$$

$$= \frac{1}{3} z^3 \Big|_1^{\sqrt[3]{3}} = 1 - \frac{1}{3} = \frac{2}{3} \cdot \cos\left(\frac{\pi}{3}\right) = \frac{2}{3} \cdot \frac{1}{2} = \frac{1}{3}$$

$$\ln(\sqrt[3]{e}) = \frac{1}{3}$$

$$\frac{1}{3} = \frac{1}{3} \quad \text{so} \quad \int_1^{\sqrt[3]{3}} z^2 dz \cdot \cos\left(\frac{3\pi}{9}\right) = \ln(\sqrt[3]{e}) \quad \text{is true.}$$