

#ADDED SEPT. 3, 2020: IN THE LIMERICK BELOW I MESSED UP!  
#the last line should be  
#Equals log of the cube root of e  
#SORRY!  
#I THANKS ORION KRESS SANFILIPPO FOR POINTING IT OUT

#GETTING TO KNOW YOU QUIZ FOR Dr. Z.'s Math251(22,23,24)  
Rutgers University

# Please Edit this ,txt page with Answers

#Email DrZcalc3@gmail.com  
#Subject: q0  
#with an attachment called  
#q0FirstLast.txt

#when I tell you during the first lecture (Sept. 3) if you  
attended it  
#Or right after, if you watched the video

#

#-----  
# My Name Is: Joe Barr

# My [Professional] Goals in Life are: Create a programming  
language and computer system.

# My Hobbies are: Reading and learning about S.T.E.M

#Please Decipher and Prove the assertion in the following  
limerick

#-----

# The integral of z-squared dz

# From one to the cube root of three

# Times the cosine

# Of three pi over nine

# Equals log of the cube root of three

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

$$\frac{z^3}{3} \Big|_1^{\sqrt{3}} \cdot \cos\left(\frac{3\pi}{9}\right) = \log(\sqrt[3]{e})$$

$$\left(\frac{(\sqrt{3})^3}{3} - \frac{1}{3}\right) \cdot \cos\left(\frac{3\pi}{9}\right) = \log(\sqrt[3]{e})$$

$$\left(\frac{3\sqrt{3}}{3} - \frac{1}{3}\right) \cdot \frac{1}{2} = \log(\sqrt[3]{e})$$

$$\frac{\sqrt{3}}{2} - \frac{1}{6} = \log(\sqrt[3]{e})$$