

Week 12 Math 150

Problem of the week

Find the value of x if:

$$x = (\log_{27} 3)^{\log_3 27}$$

Brute force method

$$x = \frac{\log 3}{\log 3^3}^{\left(\frac{\log 3^3}{\log 3}\right)}$$

$$x = \frac{1}{3}^{(3)}$$

$$x = \frac{1}{27}$$