

## Problem 4: Which Exponential is Larger?

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Determine, using Calculus not calculators or any technology, which number is larger  $\pi^3$  or  $3^\pi$

As always, show your work, fully explain and justify your answer.

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Posting Date 2/20/2017. Submit solutions to Noah Aydin, Mathematics Department, RBH 319 (e-mail or hard-copy, but hard copy submissions must include a time stamp) by 4 pm on 3/3/17.