

QUIZ 12

Name _____

1. Rotate the region bounded by $y = x^2$, $y = 1$, and the y -axis about the line $y = 2$. What is the volume of the resulting solid?

2. Does the series $\sum_{n=1}^{\infty} \frac{1}{n^3 - 3}$ converge or diverge?

3. Find the radius of convergence for the power series $\sum_{n=1}^{\infty} \frac{n^2 x^{2n}}{2^{2n}}$. (7 pts)