

Math 166 D2 (Kurth)
Quiz #7

QUIZ 7 (DUE MARCH 9)

Determine if the following integrals and sequences converge or diverge and if they converge, find the value:

1. $\int_{\sqrt{5}}^{\sqrt{8}} \frac{x}{(16 - 2x^2)^{2/3}} dx$

2. $\int_0^{\pi} \frac{\cos x}{1 - \sin x} dx$

3. $a_n = \frac{\sqrt{3n^2 + 2}}{2n + 1}$

4. $a_n = \frac{n \cos(n\pi)}{2n - 1}$