

Math 115 Exam #1 Practice Problems

For each of the following, say whether it converges or diverges and explain why.

1. $\sum_{n=1}^{\infty} \frac{n^4}{n^2+3}$

2. $\sum_{n=1}^{\infty} \frac{3^n}{4^{n+1}}$

3. $\sum_{n=1}^{\infty} 9^n$

4. For what values of p does the series $\sum_{n=1}^{\infty} \frac{n^p}{2^{n+1}}$ converge?

5. We would like to estimate the sum of the series $\sum_{n=1}^{\infty} \frac{1}{n^2+3}$ by using the sum of the first ten terms. Of course, the exact error is the sum of all the terms from the 11th on, i.e., $\sum_{n=11}^{\infty} \frac{1}{n^2+3}$. Show that this error is less than $1/3000$ by comparing this with the sum of $1/n^2$ and then by estimating this latter sum using an appropriate integral.

6. Does the series

$$\sum_{n=1}^{\infty} \frac{n!(n+1)!}{(3n)!}$$

converge or diverge?

7. Does the series

$$\sum_{n=1}^{\infty} (-1)^n \cos\left(\frac{1}{n}\right)$$

converge absolutely, converge conditionally, or diverge?

8. Determine the radius of convergence of the series

$$\sum_{n=0}^{\infty} \frac{n^3 x^{2n}}{n^2 + 1}$$

9. Consider the sequence defined by $a_n = \frac{(-1)^n + n}{(-1)^{n+1} + 2n}$. Does this sequence converge and, if it does, to what limit?

10. Find the value of the series

$$\sum_{n=1}^{\infty} \frac{1+2^n}{3^{n+1}}$$

11. Does the series

$$\sum_{n=1}^{\infty} \frac{n+5}{n\sqrt{n+3}}$$

converge or diverge?

12. Does the series

$$\sum_{n=1}^{\infty} \frac{3 + \cos n}{e^n}$$

converge or diverge?

Math 115 Exam 1 Practice Problems

Rod Powers



Math 115 Exam 1 Practice Problems:

Whispering the Techniques of Language: An Mental Quest through **Math 115 Exam 1 Practice Problems**

In a digitally-driven world wherever monitors reign supreme and quick interaction drowns out the subtleties of language, the profound strategies and psychological subtleties hidden within phrases frequently move unheard. Yet, set within the pages of **Math 115 Exam 1 Practice Problems** a interesting literary value pulsating with natural emotions, lies an extraordinary journey waiting to be undertaken. Published by a skilled wordsmith, this wonderful opus attracts viewers on an introspective journey, lightly unraveling the veiled truths and profound impact resonating within the very material of each word. Within the emotional depths of this touching review, we can embark upon a sincere exploration of the book is core styles, dissect its fascinating publishing type, and succumb to the powerful resonance it evokes heavy within the recesses of readers hearts.

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