

### 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

**Clemens Wendtner**



**Math 115 Exam 1 Practice Problems:**

## **Math 115 Exam 1 Practice Problems** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Math 115 Exam 1 Practice Problems**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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