

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 $a_n = \frac{(-1)^n + n}{(-1)^n + 2n}$. 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?

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