

1. (1 point)

Let $a_n = \frac{n+1}{n+8}$. Find the smallest number M such that:

(a) $|a_n - 1| \leq 0.001$ for $n \geq M$

$M =$ _____

(b) $|a_n - 1| \leq 0.00001$ for $n \geq M$

$M =$ _____

(c) Now use the limit definition to prove that $\lim_{n \rightarrow \infty} a_n = 1$.

That is, find the smallest value of M (in terms of ϵ) such that $|a_n - 1| < \epsilon$ for all $n > M$.

(Note that we are using ϵ instead of ϵ in the definition in order to allow you to enter your answer more easily).

$M =$ _____ (Enter your answer as a function of ϵ)

Answer(s) submitted:

- 2/9/5
- 2/9/3/9/5
- 3/5/5

(correct)

2. (1 point)



The sequence s_n graphed is increasing and

$$\lim_{n \rightarrow \infty} s_n = 1$$

Find the smallest positive integer N so that $|s_n - 1| < 0.25$, for $n \geq N$.

$N =$ _____

Answer(s) submitted:

- 5

(correct)

3. (1 point) The sequence $\{a_n\}$ is defined by $a_1 = 2$, and

$$a_{n+1} = \frac{1}{2} \left(a_n + \frac{2}{a_n} \right),$$

for $n \geq 1$. Assuming that $\{a_n\}$ converges, find its limit.

$\lim_{n \rightarrow \infty} a_n =$ _____

Hint: Let $a = \lim_{n \rightarrow \infty} a_n$. Then, since $a_{n+1} = \frac{1}{2} \left(a_n + \frac{2}{a_n} \right)$, we have $a = \frac{1}{2} \left(a + \frac{2}{a} \right)$. Now solve for a .

Answer(s) submitted:

- sqrt(2)

(correct)

4. (1 point)

Determine whether the sequence $a_n = \frac{n^4 + \sin(7n + 2)}{n^7 + 2}$ converges or diverges. If it converges, find the limit.

Converges (y/n): _____

Limit (if it exists, blank otherwise): _____

Answer(s) submitted:

- y
- 0

(correct)

5. (1 point)

Write out the first five terms of the sequence $\left[\frac{(-1)^{n+1}}{(n+1)^2} \right]_{n=1}^{\infty}$, determine whether the sequence converges, and if so find its limit.

Enter the following information for $a_n = \frac{(-1)^{n+1}}{(n+1)^2}$.

$a_1 =$ _____

$a_2 =$ _____

$a_3 =$ _____

$a_4 =$ _____

$a_5 =$ _____

$\lim_{n \rightarrow \infty} \frac{(-1)^{n+1}}{(n+1)^2} =$ _____

(Enter DNE if limit Does Not Exist.)

Does the sequence converge _____ (Enter "yes" or "no").

Answer(s) submitted:

- 1/4
- -(1/5)
- 1/16
- -(1/25)
- 1/36
- 0
- yes

(correct)

6. (1 point) Find the limit of the sequence $a_n = \frac{(5n+1)!}{(5n-1)!}$. If the limit does not exist, type "Diverges" or "D".

Limit: _____

Answer(s) submitted:

- 0

(correct)

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