Homework 07 • Graded

Student

Colin Cano

Total Points

10 / 10 pts

Question 1

Completion 8 / 8 pts



- **2 pts** Mostly complete
- 4 pts Half complete
- **6 pts** Mostly incomplete
- **8 pts** Incomplete

Question 2

Correctness of 11.1#80 2 / 2 pts



- **1 pt** Partially correct
- **2 pts** Incomplete or incorrect

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Homework 7
     Section 11.
 7. a_n = \frac{(-1)^{n-1}}{2}  a_1 = 1  a_2 = -\frac{1}{4}  a_3 = \frac{1}{4}
                     q_{1} = \frac{1}{16} q_{5} = \frac{1}{25}
 (4) a_1 = 6, a_{h+1} = \frac{a_h}{h} a_2 = 6 a_3 = 3 a_4 = 1
                                 \alpha_{5} = \frac{1}{4}
18.) a_1 = 4 a_2 = -1 a_n = 4 \cdot (-\frac{1}{n})^{n-1}
20.) 9-5 92=8 an= 3(n-1)
          \delta = 3 \alpha_n = 3n+2
22.) a_1=(a_1=0 sin(\frac{n\pi}{2})
             5, h(1) = 1 Sin(1) = 0 Sin(3) =-1
                      an-Sin(mir)
32. an=2+(0.86)
         Lim an = lim 2+(ac6) = 2+0=2. (onvergos+0
34.) an = 35n / 1/2 / 1/2 - //
                                                Jn +2
  \lim_{n \to \infty} \frac{3}{1 + \frac{3}{5n}} = \frac{3}{3} - 3
Converges at 3
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36.)
$$a_{n} = \frac{4^{n}}{1+q^{n}} = \lim_{n \to \infty} \frac{4^{n}}{1+q^{n}} = \lim_{n \to \infty} \frac{4^{n}}{q^{n}} = \frac{0}{0+1}$$
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