

LAB QUIZ 7

1.

Find the LUB of the sequence: $\left\{ \frac{2 + (-1)^n}{n} \right\}_{n=1}^{\infty}$.

- a. 1 b. 2 c. 3/2 d. 3 e. 0

2.



$$\left\{ \frac{n^{5/2} + 4n + 1}{n^3 + 5\sqrt{n}} \right\}_{n=1}^{\infty}$$

A) 0

B) 1

C) 1/5

D) 2

E) Divergent

3.



$$\left\{ \ln(n^2 + 3) - 2\ln(n + 4) \right\}_{n=1}^{\infty}$$

- A. 0
- B. 1
- C. 1/2
- D. 2
- E. Divergent

4.



$$\left\{ \frac{2^{3n}}{5^{n+1}} \right\}_{n=1}^{\infty}$$

a. 0

b. 1

c. $2/5$

d. $8/5$

e. Divergent

5.

Which of the following is the sequence of partial sums for the series: $\sum_{k=0}^{\infty} 3^k$

- A) $\{1,3,9,27,\dots\}$
- B) $\{3,9,27,81,\dots\}$
- C) $\{1,4,13,40,\dots\}$
- D) $\{4,13,40,121,\dots\}$
- E) None of these