

## Lab quiz 8

1. If possible find the sum of the  $\sum_{n=0}^{\infty} \frac{1-2^n}{3^{n+1}}$

(A)  $\frac{1}{2}$

(B)  $-\frac{1}{2}$

(C) 3

(D)  $\frac{3}{2}$

(E) Divergent

2. The series  $\sum_{n=1}^{\infty} \frac{\ln(n^6)}{3n}$  is :

(A) Convergent

(B) Divergent

3. The series  $\sum_{n=1}^{\infty} \left(\frac{n+2}{n+1}\right)^n$  is :

(A) Convergent

(B) Divergent

4. The series  $\sum_{n=1}^{\infty} \frac{7n^{3/2}+2n}{3n^{5/2}+\sqrt{n}}$  is:

(A) Convergent

(B) Divergent

5. The series  $\sum_{n=1}^{\infty} n^{5/n}$  is:

(A) Convergent

(B) Divergent