

Lab quiz 10

1. Is the series $\sum_{n=1}^{\infty} \frac{(-1)^n 2n^7 - 6}{8n^{11} + 3n^5 - 2}$
- (A) Absolutely Convergent
 - (B) Conditionally Convergent
 - (C) Divergent

2. Is the series $\sum_{n=1}^{\infty} \frac{(-1)^n 3n^5 + 3n^2}{9n^6 + 8n^5 + n}$
- (A) Absolutely Convergent
 - (B) Conditionally Convergent
 - (C) Divergent

3. Is the series $\sum_{n=1}^{\infty} \frac{(-1)^n (n-6)^2}{(n+2)(n+4)}$
- (A) Absolutely Convergent
 - (B) Conditionally Convergent
 - (C) Divergent

4. Is the series $\sum_{n=1}^{\infty} \frac{(-1)^n (\arctan(2n))}{4n^2+1}$
- (A) Absolutely Convergent
 - (B) Conditionally Convergent
 - (C) Divergent

5. Find the interval of convergence of $\sum_{n=0}^{\infty} \frac{(x-1)^n}{3^n}$

(A) $[-2, 4]$

(B) $[-3, 3]$

(C) $(\frac{2}{3}, \frac{4}{3})$

(D) $(-2, 4)$

(E) $(-3, 3)$