

2. For what values of x is the series $\sum_{n=1}^{\infty} \frac{(5x-2)^n}{n}$ conditionally convergent?

A.
$$x > \frac{3}{5}$$
 B. $x = \frac{3}{5}$ C. $x = \frac{1}{5}$ D. $x < \frac{1}{5}$

3. Which of the following statements is true about the series $\sum_{n=1}^{\infty} \frac{(-1)^{n+1}}{n^2 \sqrt{n}}.$

- A. The series converges conditionally.
- B. The series converges absolutely.
- C. The series converges but neither conditionally nor absolutely.
- D. The series diverges.

4. Determine whether the series $\sum_{n=1}^{\infty} \frac{(-1)^n}{n+5}$ converges absolutely, converges conditionally, or diverges.

5. Determine whether the series $\sum_{n=1}^{\infty} \frac{(-1)^{n+1}}{(n+1)!}$ converges absolutely, converges conditionally, or diverges.

Allsweis to 10.9 CA #1				
1. $-\frac{2}{5} < x < 0$	2. C	3. B	4. Converges Conditionally	5. Converges Absolutely

Answers to 10.9 CA #1