

4. What is the interval of convergence for the power series $\sum_{n=1}^{\infty} \frac{(-1)^{n+1}(x-4)^n}{nk^n}$, where k is a positive integer?

5. If the power series $\sum_{n=0}^{\infty} a_n (x-1)^n$ converges at x = 7 and diverges at x = -5, which of the following must be true?

I. The series converges at x = 6.

II. The series is centered at x = 1.

III. x = 7 is an endpoint

(B) II only

Answers to 10.13 CA #2				
$16 < x \le -4$	2. $-\infty < x < \infty$	3. 4	$4. 4-k < x \le 4+k$	5. D