Name: ⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯⎯ (PRINT IN BLOCK LETTERS)

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No calculators will be allowed on any quiz, midterm exam or on the final exam. Using or <u>having available</u> any calculator or other electronic device during a quiz, midterm exam or the final exam is a violation of the Academic Integrity Policy.

<u>To receive credit you must justify your answer in full detail!</u>

1. Determine the radius of convergence and the interval of convergence for the power series

$$\sum_{n=1}^{\infty} \frac{(x-5)^n}{2^n \sqrt{n}}.$$

Be sure to <u>name</u> each "test" you use and <u>verify</u> the conditions needed for the test to apply.