MATH 2300-015 QUIZ 9 (In-class portion) Name: _____

Consider the power series

$$\sum_{n=0}^{\infty} \frac{(x-1/2)^n}{\sqrt{n}}$$

1. Where is the power series centered?

2. What is the radius of convergence of the power series?

3. What is the interval of convergence of the power series?