Take Home Quiz 6 Fall 2023 Answers



2.
$$\sum_{n=0}^{\infty} n^{n} \cdot [Rnn](x-6)^{n}$$
Ratio Test
$$(n+1)^{n} \cdot (n+1)$$

$$L=\lim_{N\to\infty} \left| \frac{R_{n+1}}{R_{n}} \right| = \lim_{N\to\infty} \left| \frac{(n+1)^{n} \cdot (R_{n}(n+1))(x-6)^{n+1}}{n^{n}} \right| = \lim_{N\to\infty} \frac{(n+1)^{n}}{n^{n}} \cdot (n+1) \frac{R_{n}(n+1)}{R_{n}(n+1)} \cdot |x-6|$$

$$= \lim_{N\to\infty} \frac{(n+1)^{n}}{R_{n}} \cdot (n+1) \frac{R_{n}(n+1)}{R_{n}(n+1)} \cdot |x-6|$$

$$= \lim_{N\to\infty} \frac{R_{n}(n+1)}{R_{n}(n+1)} = \lim_{N\to\infty} \frac{1}{R_{n}(n+1)} \cdot \frac{1}{R_{n}($$



Next, find the Center Paint Paing one endpoint and the Radius above.

$$(enter a = \frac{4}{5} - \frac{23}{2^2} = \frac{16}{20} - \frac{23}{20} = -\frac{7}{20} \qquad \frac{1}{2} \qquad \frac{1}$$