

HW#16 Final Answers

1. $\sum_{n=0}^{\infty} (-1)^n x^{2n}$ and $R=1$

2. $\sum_{n=0}^{\infty} \frac{(-1)^n x^{4n+2}}{(16)^{n+1}}$ and $R=2$

3. $\sum_{n=0}^{\infty} (-1)^{n+1} n x^{n-1}$ and $R=1$

4 (a)/(b) $\sum_{n=0}^{\infty} \frac{(-1)^n x^{4n+2}}{2n+1}$ and $R=1$

5. Show Work

6. Show Work

7. $-\sum_{n=0}^{\infty} \frac{x^{n+1}}{5^{n+1}(n+1)} + \ln 5$ and $R=5$

8(a)/(b)/(c) $\cos x = \sum_{n=0}^{\infty} \frac{(-1)^n x^{2n}}{(2n)!}$