

Section 4-11 : Root Test

For each of the following series determine if the series converges or diverges.

1.
$$\sum_{n=1}^{\infty} \left(\frac{3n+1}{4-2n} \right)^{2n}$$

2.
$$\sum_{n=0}^{\infty} \frac{n^{1-3n}}{4^{2n}}$$

3.
$$\sum_{n=4}^{\infty} \frac{(-5)^{1+2n}}{2^{5n-3}}$$

