

Q1. Find the sum, if the series is convergent, and explain if it is divergent.

i.  $\sum \sqrt[n]{n}$

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

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iii.  $\sum (e^{\frac{1}{n+1}} - e^{\frac{1}{n}})$