

- ② Determine whether the geometric series converges or diverges. If it converges, find its sum.

~~$$\sum_{n=0}^{\infty} 5 \cdot 2^{n+1} 3^n$$~~

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- ③ Determine whether the series is absolutely convergent, conditionally convergent, or divergent

$$\sum_{n=0}^{\infty} \frac{(-1)^{n-1} n^3}{4^n}$$

If convergent ^{or divergent} explain ~~why~~ ^{what} and you applied to make conclusion.
what test

- ④ Determine whether the series converges or diverges

$$\sum_{n=1}^{\infty} \frac{(-1)^n}{\sqrt[5]{5n}}$$

If converges or diverges explain why and the test you applied to make conclusion.

- ⑤ Test the series for convergence or divergence

$$\sum_{n=0}^{\infty} \frac{1}{\sqrt{n^4+5}}$$

If converges or diverges explain why and what test you used to make conclusion.