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$$a - \left\{ \frac{n^2+3}{2n^2+1} \right\}_n$$

$$\lim_{n \rightarrow \infty} \sqrt[n]{\frac{n^2+1}{2n^2+1}} = \lim_{n \rightarrow \infty} \frac{n^2+1}{2n^2+1} = \frac{1}{2}$$

Convergent,

$$b - \left\{ \frac{(-2)^n}{n^n} \right\}_n$$

$$\lim_{n \rightarrow \infty} \sqrt[n]{(-2)^n} = \lim_{n \rightarrow \infty} \frac{(-2)}{n} = \frac{-2}{\infty} \rightarrow 0$$

Convergent,