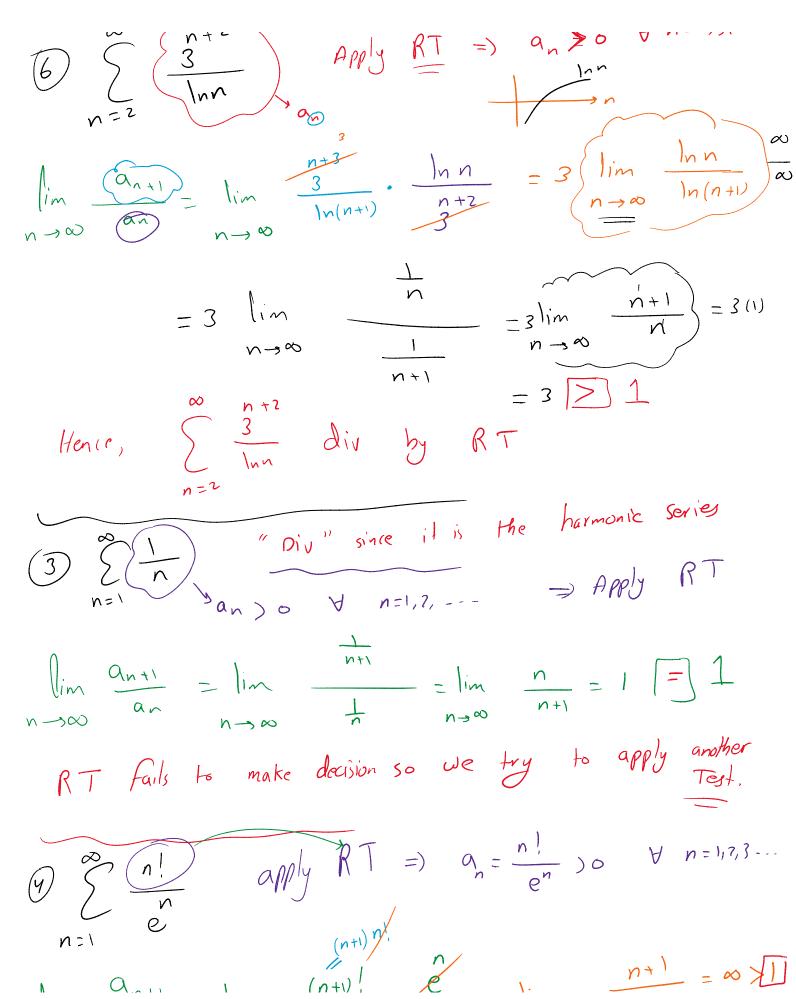
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3

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Apply RT => an >0 \ N=2,3,...



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$$\lim_{N\to\infty} \frac{a_{n+1}}{a_n} = \lim_{N\to\infty} \frac{(n+1)!}{e^n} \cdot \frac{e}{n!} = \lim_{N\to\infty} \frac{n+1}{e} = \infty \prod_{n\to\infty} \prod_{n\to\infty} \frac{n+1}{e} = \min_{n\to\infty} \frac{n+1}{e} = \infty \prod_{n\to\infty} \frac{n+1}{e} = \min_{n\to\infty} \frac{n+1}{e} = \infty \prod_{n\to\infty} \frac{n+1}{e}$$