

Q1. $\int \frac{dx}{x\sqrt{1-x^2}}$



Q2. Find the limit if the sequence $\left\{(-1)^{2n+1} \left(1 + \frac{1}{n}\right)^n\right\}$ converges or show that it diverges.



Q1. $\int \frac{3x^2 + 2x + 4}{(1-x)(2+x^2)} dx$

Q2. Find the limit if the sequence $\left\{ \sqrt[n]{2^n - 1} \right\}$ converges or show that it diverges