

Name:
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KFUPM-MATH102
Quiz#6

Q1) Determine whether $\sum_{n=1}^{\infty} \frac{e^{1/n}}{n}$ is convergent or divergent.

Q2) Determine whether $\sum_{n=1}^{\infty} \frac{n!}{n^n}$ is absolutely convergent, conditionally convergent, or divergent.

Q3) Test the series $\sum_{n=1}^{\infty} (-1)^n e^n$ for convergence or divergence

Q4) For what values of x is the series $\sum_{n=0}^{\infty} n! x^n$ convergent?