

Math 102 Quiz 4

(A)

Name:.....Sec#:.....Serial#:.....ID#:.....

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**Q.1:** Determine whether the series converges or diverges  $\sum_{n=1}^{\infty} \frac{2n^2 + 3n}{4^n (3n + 2)^2}$ .

**Q.2:** Determine whether the series converges or diverges  $\sum_{n=1}^{\infty} \frac{(-1)^{n-1} \ln n}{n}$ .

**Q.3:** Determine whether the series converges or diverges  $\sum_{n=1}^{\infty} \frac{(n + 1)!}{n^n}$ .