

**KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS**  
**DEPARTMENT OF MATHEMATICS AND STATISTICS**  
**MATH 102 - QUIZ 6**

Name:

Student ID #:

**Question 1.** Determine whether the series is convergent or divergent.

$$\sum_{n=1}^{\infty} \left( \frac{n + \sin(n)}{2n + \cos(n)} \right)^{\frac{n+1}{2}}$$

**Your Solution.**