

# Problem for 1999 March

Proposed by Professor Massoud Malek

For  $n=1,2,3,\dots$  let

$$u_n = \frac{1 \times 3 \times 5 \times \dots \times (2n-1)}{2 \times 4 \times 6 \times \dots \times 2n}.$$

Determine whether

$$\sum_{n=1}^{\infty} u_n$$

converges or diverges.