

MAT 137 (Calculus II) Prof. Swift

Worksheet on Absolute Convergence - Group Work

Indicate whether each series is Absolutely convergent (A), Convergent but not absolutely convergent (C), Divergent (D), or we don't have the tools to determine which (?).

— $1 - \frac{1}{2} + \frac{1}{3} - \frac{1}{4} + \frac{1}{5} - \frac{1}{6} + \dots$

— $\sum_{n=1}^{\infty} \frac{\sin(n)}{n}$

— $\sum_{n=1}^{\infty} (-0.25)^n$

— $\sum_{n=0}^{\infty} \frac{(-1)^n(n+1)}{n+2}$