

1. Does $\sum_{n=1}^{\infty} \frac{n}{n^2+1}$ converge or diverge? (Use the Integral Test. Be sure to show why the terms are decreasing.)

Challenge: Is there a “smallest” divergent series? (That is, a divergent series $\sum a_n$ where the terms a_n are smaller than the terms of any other divergent series.)

Q: A man leaves home and, after making three left turns, he ends up back at home, and finds two masked men waiting for him. What is happening?