

11.5 #s 1 - 10, 17, 18, 21*, 24, 26, 28, 29, 31 - 34
*Spreadsheet! Charts! XY-Scatter!

11.6 - Absolute and Conditional Convergence: Ratio and Root Tests

11.6 #s 1 - 10, 19 - 26, 31

11.4

$$\# 30 \quad \sum_{n=1}^{\infty} \frac{1}{5^n} = \sum a_n$$

$$\frac{n(n-1)\dots(3)(2)(1)}{n \cdot n \dots (n)(n)(n)} \leq \underbrace{1 \cdot 1 \dots 1}_{n \text{ of } 1\text{'s}} \cdot \frac{2}{n^2} = \frac{2}{n^2} = b_n$$

$a_n \leq b_n$ term by term

$\sum b_n$ converges \Rightarrow
 $\sum a_n$ converges.

