

Cálculo II  
SÉRIES ESPECIAIS

$$a = \sum 12(0,73)^n$$

$$a_1 = 12(0,73)^1 = 8,76$$

$$\frac{a_3}{a_2} = \frac{4,6682}{6,3948} = 0,72$$

$$a_2 = 12(0,73)^2 = 6,3948$$

$$a_3 = 12(0,73)^3 = 4,6682$$

$$\frac{a_2}{a_1} = \frac{6,3948}{8,76} = 0,72$$

$$q = 0,72 \rightarrow |0,72| = 0,72$$

Convergente

$$b = \sum \frac{5}{\pi^n}$$

$$a_1 = \frac{5}{\pi}$$

$$\frac{a_3}{a_2} = \frac{\cancel{5}/\pi^3}{\cancel{5}/\pi^2} = \frac{5^{11}}{\pi^3} \cdot \frac{\pi^2}{5}$$

$$a_2 = \frac{5}{\pi^2}$$

$$\cancel{5}/\pi^2$$

$$a_3 = \frac{5}{\pi^3}$$

$$|q| > 1$$

Divergente