

Calcolo II
22/05/21

→ Liste os 5 primeiros termos das sequências

$$\bullet a_n = \frac{2^n}{2n+3}$$

$$a_1 = \frac{2^1}{2 \cdot 1 + 1} = \frac{2}{3},$$

$$a_2 = \frac{2^2}{2 \cdot 2 + 1} = \frac{4}{5},$$

$$a_3 = \frac{2^3}{2 \cdot 3 + 1} = \frac{8}{7},$$

$$a_4 = \frac{2^4}{2 \cdot 4 + 1} = \frac{16}{9},$$

$$a_5 = \frac{2^5}{2 \cdot 5 + 1} = \frac{32}{11},$$

$$\bullet a_n = \frac{3^n}{1+3^n}$$

$$a_1 = \frac{3^1}{1+3^1} = \frac{3}{4},$$

$$a_2 = \frac{3^2}{1+3^2} = \frac{9}{10},$$

$$a_3 = \frac{3^3}{1+3^3} = \frac{27}{28},$$

$$a_4 = \frac{3^4}{1+3^4} = \frac{81}{82},$$

$$a_5 = \frac{3^5}{1+3^5} = \frac{243}{244},$$

$$\bullet a_n = \frac{2n}{n^2 + 1}$$

$$a_1 = \frac{2 \cdot 1}{1^2 + 1} = \frac{2}{2} = 1$$

$$a_2 = \frac{2 \cdot 2}{2^2 + 1} = \frac{4}{5},$$

$$a_3 = \frac{2 \cdot 3}{3^2 + 1} = \frac{6}{10},$$

$$a_4 = \frac{2 \cdot 4}{4^2 + 1} = \frac{8}{17},$$

$$a_5 = \frac{2 \cdot 5}{5^2 + 1} = \frac{10}{26},$$

Refreshing