Ćwiczenia 2. Granica ciągu liczbowego

Zad. Oblicz granicę ciągu o wyrazie ogólnym a_n :

$$a_{n} = \frac{2n+1}{3n+2}$$

$$a_{n} = \frac{3n+2}{3n+2}$$

$$a_{n} = \frac{(n+1)^{2}}{3n-2}$$

$$a_{n} = \frac{(3n+1)^{2}}{n^{2}-1}$$

$$a_{n} = \frac{(3n+1)^{2}}{n^{2}-1}$$

$$a_{n} = \frac{(n+1)(2n-1)}{(3n+3)(2-n)}$$

$$a_{n} = \frac{-3n^{2}+2n-3}{n^{2}+5}$$

$$a_{n} = \frac{(n^{2}+1)^{2}}{3n^{5}-n^{3}+5n^{2}}$$

$$a_{n} = \sqrt{\frac{2n+3}{3n-2}}$$

$$a_{n} = \sqrt{\frac{2n+4}{3n-2}}$$

$$a_{n} = \frac{n^{2}-5n-1}{6n^{2}+1}$$

$$a_{n} = \frac{n^{2}-5n-1}{6n^{2}+1}$$

$$a_{n} = \frac{n^{2}-5n-1}{6n^{2}+1}$$

$$a_{n} = \frac{n^{2}-(-1)^{n}}{n+1}$$

$$a_{n} = \frac{n^{2}+(-1)^{n}}{2n^{2}+4}$$

$$a_{n} = \frac{n^{2}+(-1)^{n}}{2n^{2}+4}$$

$$a_{n} = \frac{n\sin(n)}{2n+1}$$

$$a_{n} = \frac{n\sin(2n-1)}{n^{2}+1}$$

$$a_{n} = \frac{1+3+3+4-8^{n}}{3\cdot 2^{n+3}}$$

$$a_{n} = \sqrt{n+1} - \sqrt{n}$$

$$a_{n} = \sqrt{n+1$$

$$a_{n} = \left(1 + \frac{1}{n^{2}}\right)^{-2n}$$

$$a_{n} = \left(1 + \frac{1}{2n}\right)^{n^{2}}$$

$$a_{n} = \left(1 + \frac{1}{2n}\right)^{3n^{2}}$$

$$a_{n} = \left(\frac{n^{2} + 2}{n^{2}}\right)^{3n^{2}}$$

$$a_{n} = n(\ln(n+1) - \ln n)$$

$$a_{n} = e^{-\frac{n!}{(n-2)!}}$$

$$a_{n} = 4^{\sin^{2}\left(\frac{n\pi}{2}\right)}$$