$$|z| = \sqrt{x^2 + y^2} \Rightarrow |z| = \sqrt{25}$$

 $\tan \gamma = \frac{y}{x} \Rightarrow |z| = -\arctan\left(\frac{z\gamma}{z}\right) + \pi \quad (x < 0, y > 0 \Rightarrow \pi \text{ kvadrant})$

$$2_{K} = \sqrt{|Z|} \cdot \left(\cos \left(\frac{\rho}{n} + \frac{z\pi}{n} \cdot K \right) + i \cdot \sin \left(\frac{\rho}{n} + \frac{z\pi}{n} \cdot K \right) \right), \quad K = 0,1,2,3$$

$$\frac{2}{\kappa} = \frac{4}{25} \left(\cos \left(\frac{e}{4} + \frac{2\pi}{4} \cdot \kappa \right) + i \cdot \sin \left(\frac{e}{4} + \frac{2\pi}{4} \cdot \kappa \right) \right)$$

$$\frac{2}{6} = \frac{4\sqrt{25}}{\sqrt{25}} \left(\cos \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right) + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right) \right) = \frac{1}{2} + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right) \right) = \frac{1}{2} + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right) \right) = \frac{1}{2} + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right) \right) = \frac{1}{2} + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right) \right) = \frac{1}{2} + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right) \right) = \frac{1}{2} + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right) \right) = \frac{1}{2} + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right) \right) = \frac{1}{2} + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right) \right) = \frac{1}{2} + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right) \right) = \frac{1}{2} + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right) \right) = \frac{1}{2} + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right) \right) = \frac{1}{2} + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right) \right) = \frac{1}{2} + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right) \right) = \frac{1}{2} + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right) \right) = \frac{1}{2} + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right) \right) = \frac{1}{2} + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right) \right) = \frac{1}{2} + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right) = \frac{1}{2} + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right) = \frac{1}{2} + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right) = \frac{1}{2} + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right) = \frac{1}{2} + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot o \right)$$

$$Z_{\Lambda} = \sqrt[4]{25} \left(\cos \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{z\pi}{4} \cdot \Lambda \right) + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{z\pi}{4} \cdot \Lambda \right) \right)$$

$$23 = 4\sqrt{25} \left(\cos \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot 3 + i \cdot \sin \left(\frac{-\arctan\left(\frac{24}{7}\right) + \pi}{4} + \frac{2\pi}{4} \cdot 3 \right) \right)$$

$$|2| = \sqrt{52^2 + 47^2} = \sqrt{913} = 17\sqrt{17}$$

 $\tan f = \frac{3}{x} = \frac{47}{52}$

$$\frac{2\sqrt{4913} \cdot e^{i\frac{\beta}{3} + \frac{2k\pi}{3}}}{(\cos(\frac{\beta}{3}) + i\sin(\frac{\beta}{3}))} = \frac{4}{4} + i1$$

$$2 = \sqrt[8]{28^2 + 96^2} \left(\cos \left(\frac{\tan^{-1}(-\frac{96}{28})}{4} + \frac{2\pi}{4} \cdot k \right) + i \sin \left(\frac{\tan^{-1}(-\frac{96}{28})}{4} + \frac{2\pi}{4} \cdot k \right) \right)$$

$$2_0 = 3 - 1i$$

 $2_1 = 1 + 3i$

$$\xi_{1} = 1 + 3i$$

$$O_{n} = \frac{10^{3n}}{n!} \qquad \text{od katerega clena je strego padajace}$$

$$\frac{10^{3n}}{n!} > \frac{10^{3(n+1)}}{(n+1)!} \qquad |n! (n+1)|$$

$$\frac{10^{3n} \cdot (n+1)!}{n!} > \frac{10^{3n+3} \cdot n!}{10^{3n}}$$

$$\frac{(n+1)!}{n!} > \frac{10^{3n+3}}{10^{3n}}$$

$$\frac{10^{3n} \cdot (n+1)!}{n!} > \frac{10^{3n+3}}{10^{3n}}$$

$$\frac{10^{3n} \cdot (n+1)!}{n!} > \frac{10^{3n+3}}{10^{3n}}$$

$$\frac{10^{3n} \cdot (n+1)!}{n!} > \frac{10^{3n}}{10^{3n}}$$

$$\frac{10^{3n} \cdot (n+1)!}{n!} > \frac{10^{3n}}{10^{3n}}$$

$$O_{h} = \frac{g^{3n}}{n!} > \frac{g^{3n+3}}{(n+1)!} > \frac{g^{3n+3}}{(n+1)!$$

$$\frac{7^{3n}}{n!} > \frac{7^{3(n+1)}}{(n+1)!} \\
\frac{(n+1)!}{n!} > \frac{7^{3(n+1)}}{7^{3(n+1)}} \\
n > 7^3 = 343$$

$$\lim_{x \to \infty} \frac{1}{5^{n} + n^{4} - 12} = \frac{1}{5^{n}} = \frac{1}{5^{n} + 1} = \frac{1}{5^{n}} = \frac{1}{5^{n} + 1} = \frac{1}{5^{n}} = \frac{1}{5^{n}}$$

$$q^{n+1} = q^n \cdot q^1$$
 $q^{n-1} = \frac{q^n}{q}$

$$\lim_{x\to\infty} \frac{1}{4^{n}-16} = \frac{1}{4^{n}-16} = \frac{7\cdot 4}{1} = 28$$

$$\lim_{x\to\infty} \frac{n^6 + n - 24 \cdot 4^n}{2 \cdot 4^{n+1} - n^2} : 4^n = \frac{\frac{n^{9^6} + \frac{n^9}{4^n} - \frac{24 \cdot 4^n}{4^n}}{\frac{2}{4^n} - \frac{n^{9^6}}{4^n}}}{\frac{2}{4^n} - \frac{n^{9^6}}{4^n}} = \frac{-24}{2 \cdot 4} = \frac{-24}{8} = -3$$

$$\frac{6n^{2} + 2n - 2}{3n^{2} + n + 2} \qquad a = \lim_{n \to \infty} \frac{6n^{2} + 2n - 2}{3n^{2} + n + 2} \stackrel{\text{(in}^{2})}{=} \frac{6}{3} = 2$$

spissin limita
$$|a_{n} - a| < 6$$

$$I \frac{6n^{2} + 2n - 2}{3n^{2} + n + 2} - 2 < \frac{4}{40}$$

$$G_{n}^{2} + 2n - 2 < \frac{84}{40} (3n^{2} + n + 2) / 2$$

$$G_{n}^{2} + 2n - 2 < \frac{84}{40} (3n^{2} + n + 2) / 2$$

$$3n^{2} + n + 2$$

$$G_{n}^{2} + 2n - 2 < \frac{84}{40} (3n^{2} + n + 2) / 80$$

$$23 + n + 2 < 6n^{2} + 2n - 2 / 40$$

$$23 + n + 2 < 6n^{2} + 2n - 2 / 40$$

$$23 + n + 2 < 6n^{2} + 2n - 2 / 40$$

$$23 + n + 2 < 6n^{2} + 2n - 2 / 40$$

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$$3n^{2} + n + 2 < 6n^{2} + 2n - 2 / 40$$

$$3n^{2} + n + 2 < 6n^{2} + 2n - 2 / 40$$

$$3n^{2} + n + 2 < 6n^{2} + 2n - 2 /$$

$$-\frac{15n^{2}+3n-1}{5n^{2}+2} + 3 < \frac{1}{30}$$

$$\frac{89}{30} > \frac{15n^{2}+3n-1}{5n^{2}+2} / \cdot 30(5n^{2}+2)$$

$$89(5n^{2}+2) > 30(15n^{2}+3n-1)$$

$$445n^{2} + 178 > 450n+90n-30$$

$$5n^{2} - 90n + 208 > 0$$

$$n = 15, 27 / K = 16$$

$$n_{2} = 2, 7$$