Вошиние задание к уроку 3.

(1)
$$lim \frac{10n}{n^2+1} = \left[\frac{\infty}{\infty}\right]$$
 geennen me n^2

$$\lim_{n\to\infty}\frac{10\pi}{1+\frac{1}{n^2}}=0$$

b)
$$\lim_{n\to\infty} \frac{5 \cdot 3^n}{3^n - 2} = \begin{bmatrix} \infty \\ \infty \end{bmatrix}$$
 geennen næ 3^n

$$\lim_{n\to\infty} \frac{5}{1-\frac{2}{3^n}} = 5$$

2 lim
$$(n^2+n-n) = [\infty - \infty]$$
 goennommen ne $(n^2+n^2+n^2+n)$

$$\lim_{n\to\infty} \frac{1}{n^2+n^2+1} = \frac{1}{n^2+1} = \frac{1}{2}$$

(3)
$$\lim_{n\to\infty} \frac{\ln^2 \cos h}{n+1} = \left[\frac{\infty}{\infty}\right]$$
 gerence no h

$$\lim_{n \to \infty} \frac{1}{\sqrt{n}} \cdot \frac{\cos n}{\cos n} = \frac{\cos n}{\ln n} = 0$$

$$1 + \frac{1}{\ln n} = 0$$