

b) Glebaus projekcija na x_1, x_2 plokina gali muzem ignoruoti x_3 ir d_3

$$x = \lambda + l \quad y = \frac{d_2 - d_2}{\sqrt{q - k_1}} x + k$$

$$\frac{x^2}{r^2} + \frac{(kx + l)^2}{\lambda^2} = 1$$

$$\frac{x^2}{r^2} + \frac{k^2 x^2 + 2klx + l^2}{\lambda^2} = 1$$

$$\lambda^2 x^2 + \pi^2 k^2 x^2 + 2\pi^2 k l x + \pi^2 l^2 = r^2 \lambda^2$$

$$\lambda^2 (\lambda^2 + \pi^2 k^2) + 2\pi^2 k l x + \pi^2 l^2 - r^2 \lambda^2 = 0$$

$$\Delta = (2\pi^2 k l)^2 - 4 \cdot (\lambda^2 + \pi^2 k^2) \cdot (\pi^2 l^2 - r^2 \lambda^2)$$

$\Delta > 0 \Rightarrow$ realki vijie cilindras

$\Delta = 0 \Rightarrow$ realki dyliniai cilindras

$\Delta < 0 \Rightarrow$ realki ne diro cilindras