Př.: elipsa: $\frac{x^2}{625} + \frac{y^2}{400} = 1 \;/\cdot 10\,000$; přímka $4x + 5y = 140$

$$16x^2 + 25y^2 = 10\,000$$

$$x = \frac{140 - 5y}{4}$$

$$16 \cdot \frac{(140-5y)^2}{16} + 25 \cdot y^2 = 10\,000$$

$$19600 - 1400y + 25y^2 + 25y^2 - 10000 = 0$$

$$50y^2 - 1400y + 9600 = 0 \;/:50$$

$$y^2 - 28y + 192 = 0$$

$$y_{1,2} = \frac{28 \pm \sqrt{784 - 768}}{2} = \frac{28 \pm \sqrt{16}}{2} = \frac{28 \pm 4}{2} = \begin{cases} 16 \\ 12 \end{cases}$$

$x_1 = \frac{140-80}{4} = 15$

$x_2 = \frac{140-60}{4} = 20$

průsečíky: $T_1 = [15; 16]$ $[20; 12] = T_2$

řešíme v těchto bodech:

t_1: $\frac{x \cdot 15}{625} + \frac{y \cdot 16}{400} = 1 \rightarrow 240x + 400y = 10^3 \rightarrow$

$24x + 40y - 100 = 0 \rightarrow \boxed{6x + 10y - 25 = 0}$

t_2: $\frac{x \cdot 20}{625} + \frac{y \cdot 12}{400} = 1 \rightarrow 320x + 300y = 10^3 \rightarrow$

$32x + 30y - 100 = 0 \rightarrow \boxed{16x + 15y - 50 = 0}$