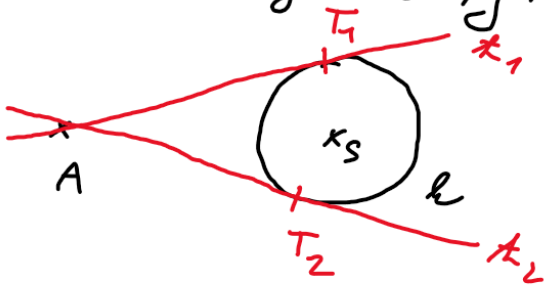


p | polárna : $(x_1 - m)(x - m) + (y_1 - n)(y - n) = r^2$

Pr: Bodem $A[\frac{1}{2}; \frac{9}{2}]$ vedte tečny ke kružnici

$k: x^2 + y^2 - 6x - 4y + 3 = 0$



$T_1, T_2 \in p \cap k$?

$k: (x-3)^2 - 9 + (y-2)^2 - 4 + 3 = 0$

$(x-3)^2 + (y-2)^2 = 10$

$p_A: (\frac{1}{2} - 3)(x - 3) + (\frac{9}{2} - 2)(y - 2) = 10 \quad -5x + 15 + 5y - 10 = 20 \quad | :(-5)$

$-\frac{5}{2}x + \frac{15}{2} + \frac{5}{2}y - 5 = 10 \quad | \cdot 2 \quad p: \underline{x - y + 3 = 0}$

$y = x + 3 \rightarrow l \text{ (or)}$

$p \cap k: x^2 + (x+3)^2 - 6x - 4(x+3) + 3 = 0$

$x^2 - 2x = 0$

$x(x-2) = 0$

$x_1 = 0 \quad y_1 = 3 \quad T_1 [0; 3]$

$x_2 = 2 \quad y_2 = 5 \quad T_2 [2; 5]$

$t: (x_0 - m)(x - m) + (y_0 - n)(y - n) = r^2$

$t_1: (0-3)(x-3) + (3-2)(y-2) = 10$

$-3x + 9 + y - 2 - 10 = 0$

$t_1: 3x - y + 3 = 0$

$t_2: (2-3)(x-3) + (5-2)(y-2) = 10$

$-x + 3 + 3y - 6 - 10 = 0$

$t_2: x - 3y + 13 = 0$