



**Zadatak 35.** Pod kojim se kutom iz točke  $T(6, 3)$  vidi kružnica  $x^2 + y^2 + 6x = 0$ ?

**Rješenje.**  $3 = 6k + l \implies l = -6k + 3$ ,  $6 = -2p \implies p = -3$ ,  $0 = -2q \implies q = 0$ ,  
 $0 = 9 + 0 - r^2 \implies r^2 = 9$

$$r^2(1 + k^2) = (q - kp - l)^2$$

$$9(1 + k^2) = (0 + 3k + 6k - 3)^2$$

$$9(1 + k^2) = (9k - 3)^2$$

$$9 + 9k^2 = 81k^2 - 54k + 9$$

$$-72k^2 + 54k = 0$$

$$-k(4k - 3) = 0$$

$$k_1 = 0$$

$$k_2 = \frac{3}{4}$$

$$\alpha = \arctg \frac{3}{4} \approx 36^\circ 52'.$$