Zadatak 12. Na kružnicu $(x-4)^2+(y+3)^2=8$ položi tangente okomito na pravac $x+y=0$.

Rješenje. $S(4,-3)$, $r^2=8$, $k_t=-\frac{1}{k}=1$

$$r^2(1+k_t^2)=(q-kp-l)^2$$
$$8(1+1)=(-3-4-l)^2$$
$$16=49+14l+l^2$$
$$l^2+14l+33=0$$
$$l_{1,2}=\frac{-14\pm\sqrt{196-132}}{2}$$
$$l_{1,2}=\frac{-14\pm 8}{2}$$
$$l_1=-3,\quad l_2=-11$$

$x-y-3=0$,
$x-y-11=0$.