Zadatak 9. Kako glase jednadžbe tangenata položenih na kružnicu $x^2+y^2+10x-2y+6=0$ paralelno s pravcem $2x+y-3=0$?

Rješenje. $k=-2,\ 10=-2p \implies p=-5,\ -2=-2q \implies q=1,$
$6=25+1-r^2 \implies r^2=20$

$$r^2(1+k^2)=(q-kp-l)^2$$
$$20(1+4)=(1-10-l)^2$$
$$100=(-9-l)^2$$
$$100=81+18l+l^2$$
$$l^2+18l-19=0$$
$$l_{1,2}=\frac{-18\pm\sqrt{324+76}}{2}$$
$$l_{1,2}=\frac{-18\pm 20}{2}$$
$$l_1=1,\quad l_2=-19$$

$2x+y-1=0,$
$2x+y+19=0.$