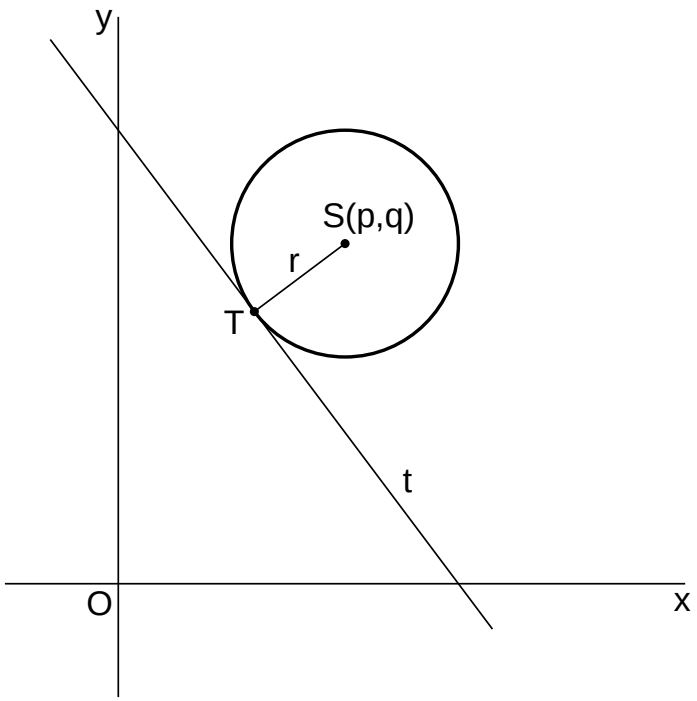
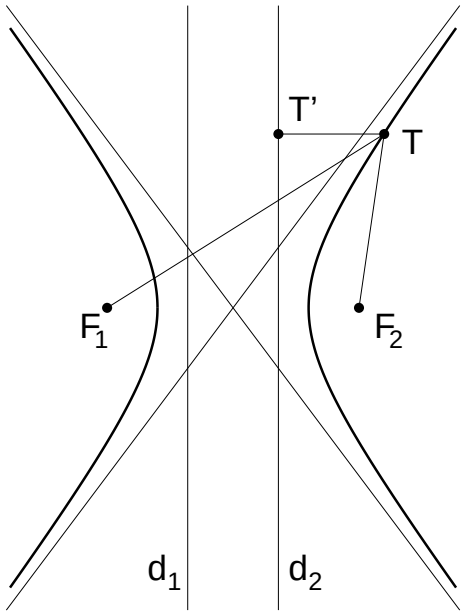
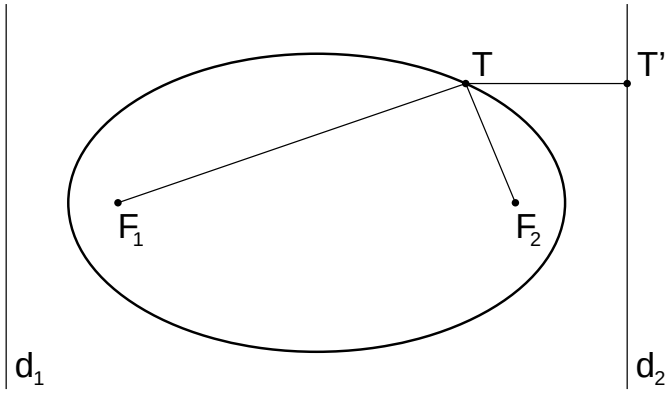
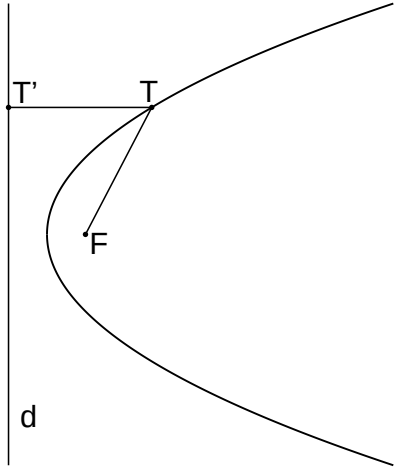
ANALITIČKA GEOMETRIJA – formule – konike

	kružnica	elipsa	hiperbola	parabola
definicija	$d(T,S)=r$	$d(F_1,T)+d(T,F_2)=2a$	$\lvert d(F_1,T)-d(T,F_2)\rvert=2a$	$d(T,F)=d(T,d)$
jednadžba	$(x-p)^2+(y-q)^2=r^2$	$b^2x^2+a^2y^2=a^2b^2$	$b^2x^2-a^2y^2=a^2b^2$	$y^2=2px$
ekscentricitet				
. . . linearni		$e^2=a^2-b^2$	$e^2=a^2+b^2$	
. . . numerički	$\varepsilon=0$	$\varepsilon=e/a<1$	$\varepsilon=e/a>1$	$\varepsilon=1$
fokusi	$S=(p,q)$	$F=(\pm e,0)$	$F=(\pm e,0)$	$F=(p/2,0)$
asimptote			$y=\pm bx/a$	
direktrise		$x=\pm a^2/e$	$x=\pm a^2/e$	$x=-p/2$
jednadžba tangente i polare	$(x_0-p)(x-p)+(y_0-q)(y-q)=r^2$	$b^2x_0x+a^2y_0y=a^2b^2$	$b^2x_0x-a^2y_0y=a^2b^2$	$y_0y=p(x_0+x)$
uvjet dodira s pravcem $y=kx+l$	$r^2(k^2+1)=(q-kp-l)^2$	$a^2k^2+b^2=l^2$	$a^2k^2-b^2=l^2$	$p=2kl$


y
S(p,q)
r
T
t
O
x


T'
T
F1
F2
d1
d2


T
T'
F1
F2
d1
d2


T'
T
F
d