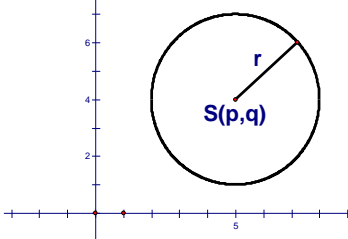
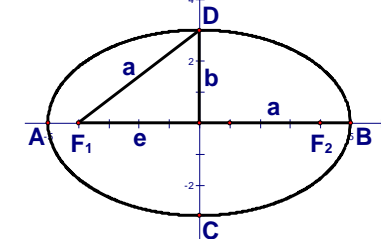
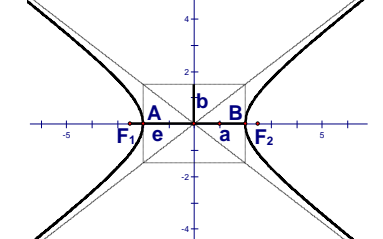
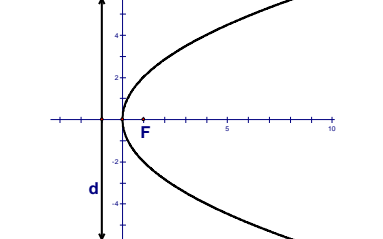


Tablica 1. Krivulje II reda

	KRUŽNICA	ELIPSA	HIPERBOLA	PARABOLA
Definicija	S tačka, $r > 0$ $K = \{T \in M : d(T, S) = r\}$	F_1, F_2 tačke, $a > 0$ $E = \{T \in M : d(T, F_1) + d(T, F_2) = 2a\}$	F_1, F_2 tačke, $a > 0$ $H = \{T \in M : d(T, F_1) - d(T, F_2) = 2a\}$	F tačka, d i prava, $F \notin d$ $P = \{T \in M : d(T, F) = d(T, d)\}$
Skica				
Osnovni pojmovi	S(p, q) – centar r – poluprečnik	F_1, F_2 – fokusi (žiže) A, B, C, D – temena a – velika poluosa b – mala poluosa e – linearni ekscentritet	F_1, F_2 – fokusi A, B – temena a – velika poluosa b – mala poluosa e – linearni ekscentritet	$F(\frac{p}{2}, 0)$ F – fokus $x = -\frac{p}{2}$ d – direktrisa
Ostali pojmovi i veze		e – lin. eksc. $a^2 = e^2 + b^2$ ($a > b$) $\varepsilon = \frac{e}{a}$ ε - numerički ekscentritet $p = \frac{b^2}{a}$ p – poluparametar	e – lin. eksc. $e^2 = a^2 + b^2$ $\varepsilon = \frac{e}{a}$ ε - numerički ekscentritet $p = \frac{b^2}{a}$ p – poluparametar	p – poluparametar $p = d(F, d)$
Jednadžba	$(x-p)^2 + (y-q)^2 = r^2$	$b^2x^2 + a^2y^2 = a^2b^2$ $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$	$b^2x^2 - a^2y^2 = a^2b^2$ $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$	$y^2 = 2px$
Posebni slučajevi i napomene	$S(0,0) \Rightarrow x^2 + y^2 = r^2$ (ako je $r=1$ to je trigonometrijski krug)	Ako je $a=b$ elipsa postaje kružnica $x^2 + y^2 = a^2$.	$y = \pm \frac{b}{a}x$ asimptote	$x^2 = 2py$ parabola okrenuta prema gore $y^2 = -2px$ parabola okrenuta ulevo
Uslov da prava bude tangenta krive	$(1+k^2)r^2 = (q-kp-l)^2$ $(1+k^2)r^2 = l^2$	$a^2k^2 + b^2 = l^2$	$a^2k^2 - b^2 = l^2$	$p = 2kl$
Jednačina tangente u tački T(x ₁ , y ₁)	$(x_1-p)(x-p) + (y_1-q)(y-q) = r^2$ $x_1x + y_1y = r^2$	$b^2x_1x + a^2y_1y = a^2b^2$	$b^2x_1x - a^2y_1y = a^2b^2$	$y_1y = p(x+x_1)$
Polara i pol P(x ₀ , y ₀) krivulje	$(x_0-p)(x-p) + (y_0-q)(y-q) = r^2$ $x_0x + y_0y = r^2$	$b^2x_0x + a^2y_0y = a^2b^2$	$b^2x_0x - a^2y_0y = a^2b^2$	$y_0y = p(x+x_0)$
Temena jednačina		$y^2 = 2px - \frac{p}{a}x^2$	$y^2 = 2px + \frac{p}{a}x^2$	$y^2 = 2px$