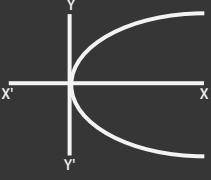
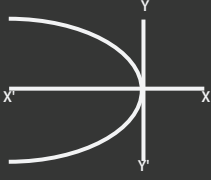
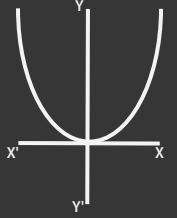
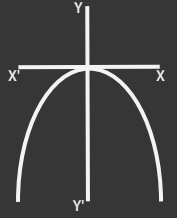
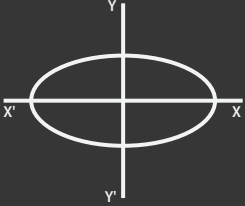
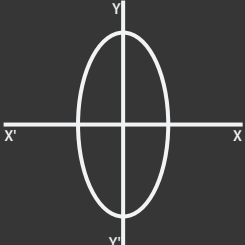


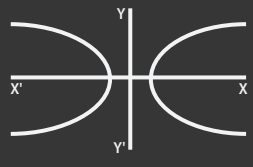
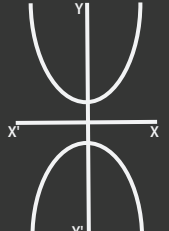
Parabola

Equation	Graph	Focus	Length of LR	Equation of Directrix	Equation of axis
$y^2 = 4ax$		$(a, 0)$	$4a$	$x = -a$	$y = 0$
$y^2 = -4ax$		$(-a, 0)$	$4a$	$x = a$	$y = 0$
$x^2 = 4ay$		$(0, a)$	$4a$	$y = -a$	$x = 0$
$x^2 = -4ay$		$(0, -a)$	$4a$	$y = a$	$x = 0$

Ellipse

Equation	Graph	Focus	Length of LR	Length of Major Axis	Length of Minor Axis
$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ $a > b$		$(\pm ae, 0)$	$\frac{2b^2}{a}$	$2a$	$2b$
$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$ $a < b$		$(0, \pm be)$	$\frac{2a^2}{b}$	$2b$	$2a$

Hyperbola

Equation	Graph	Focus	Length of LR	Equation of axis
$\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$		$(\pm ae, 0)$	$\frac{2b^2}{a}$	Major axis $y = 0$ Minor axis $x = 0$
$\frac{y^2}{b^2} - \frac{x^2}{a^2} = 1$		$(0, \pm be)$	$\frac{2a^2}{b}$	Major axis $x = 0$ Minor axis $y = 0$