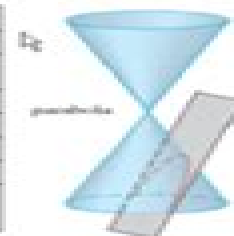
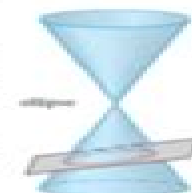


Conic Sections Formulas

Parabola		
equation	Vertical Axis $(x-h)^2=4p(y-k)$	Horizontal axis $(y-k)^2=4p(x-h)$
Axis of symmetry	$x=h$	$y=k$
Vertex	(h,k)	(h,k)
Focus	$(h,k+p)$	$(h+p,k)$
Directrix	$y=k-p$	$x=h-p$
Direction of opening	$p>0$ then up; $p<0$ then down	$p>0$ then right; $p<0$ then left



Ellipse		
equation	Vertical Major Axis $\frac{(x-h)^2}{b^2} + \frac{(y-k)^2}{a^2} = 1$	Horizontal Major axis $\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$
center	(h,k)	(h,k)
Vertices	$(h,k\pm a)$	$(h\pm a,k)$
Foci	$(h,k\pm c)$	$(h\pm c,k)$
Major axis equation	$2a = \text{length of major axis}$	
Minor axis equation	$2b = \text{length of minor axis}$	
Equation that relates a, b, and c	$a^2 = b^2 + c^2$	
Eccentricity of an ellipse	$e = (c/a)$	



Hyperbola		
equation	Vertical Transverse Axis $\frac{(y-k)^2}{a^2} - \frac{(x-h)^2}{b^2} = 1$	Horizontal Transverse axis $\frac{(x-h)^2}{a^2} - \frac{(y-k)^2}{b^2} = 1$
center	(h,k)	(h,k)
Vertices	$(h,k\pm a)$	$(h\pm a,k)$
Foci	$(h,k\pm c)$	$(h\pm c,k)$
Asymptote equation	$y-k = \pm \frac{a}{b}(x-h)$	$y-k = \pm \frac{b}{a}(x-h)$
Equation relating a, b, and c	$c^2 = a^2 + b^2$	



Classifying conic sections	Circles	Parabola	Ellipse	Hyperbola
$Ax^2 + Cy^2 + Dx + Ey + F = 0$	$A = C$	$AC = 0$, Both are not 0	$AC > 0$	$AC < 0$

Sources: [Conicsectionsformulas](http://Conicsectionsformulas.com)

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