

**PRE-CALCULUS (1<sup>ST</sup> QUARTER)  
FORMULAS**

**CIRCLE**

Center (h, k)	Standard Form $(x - h)^2 + (y - k)^2 = r^2$
(0, 0)	$x^2 + y^2 = r^2$
Completing the square	$c = \left(\frac{b}{2a}\right)^2$

**PARABOLA**

Principal Axis	Vertex	Directrix	Focus	Standard Form
Case 1: Vertical	(h, k)	$y = k - p$	(h, k + p)	$(x - h)^2 = 4p(y - k)$
	(0, 0)	$y = -p$	(0, p)	$x^2 = 4py$
Case 2: Horizontal	(h, k)	$x = h - p$	(h + p, k)	$(y - k)^2 = 4p(x - h)$
	(0, 0)	$x = -p$	(p, 0)	$y^2 = 4px$
Latus Rectum				$LR =  4p $

**ELLIPSE**

Principal Axis	Center	Vertices	Co-vertices	Foci	Standard Form
Case 1: Horizontal	(h, k)	(h ± a, k)	(h, k ± b)	(h ± c, k)	$\frac{(x - h)^2}{a^2} + \frac{(y - k)^2}{b^2} = 1$
	(0, 0)	(±a, 0)	(0, ±b)	(±c, 0)	$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$
Case 2: Vertical	(h, k)	(h, k ± a)	(h ± b, k)	(h, k ± c)	$\frac{(x - h)^2}{b^2} + \frac{(y - k)^2}{a^2} = 1$
	(0, 0)	(0, ±a)	(±b, 0)	(0, ±c)	$\frac{x^2}{b^2} + \frac{y^2}{a^2} = 1$
Length of major axis					2a
Length of minor axis					2b
Pythagorean Theorem (solving for c)					$c^2 = a^2 - b^2$

**HYPERBOLA**

Principal Axis	Center	Vertices	Co-vertices	Foci	Asymptotes	Standard Form
Case 1: Horizontal	(h, k)	(h ± a, k)	(h, k ± b)	(h ± c, k)	$(y - k) = \pm \frac{b}{a}(x - h)$	$\frac{(x - h)^2}{a^2} - \frac{(y - k)^2}{b^2} = 1$
	(0, 0)	(±a, 0)	(0, ±b)	(±c, 0)	$y = \pm \frac{b}{a}x$	$\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$
Case 2: Vertical	(h, k)	(h, k ± a)	(h ± b, k)	(h, k ± c)	$(y - k) = \pm \frac{a}{b}(x - h)$	$\frac{(y - k)^2}{a^2} - \frac{(x - h)^2}{b^2} = 1$
	(0, 0)	(0, ±a)	(±b, 0)	(0, ±c)	$y = \pm \frac{a}{b}x$	$\frac{y^2}{a^2} - \frac{x^2}{b^2} = 1$
Length of transverse axis						2a
Length of conjugate axis						2b
Pythagorean Theorem (solving for c)						$c^2 = a^2 + b^2$
Latus Rectum						$LR = \frac{2b^2}{a}$

# Pre Cal Arithmetic And Geometric Series

**Marco Cascella**



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