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Parabola. Equations: Vertical- $y = a(x-h)^2 + k$. In the vertical case, the y is by itself in the equation because the sides of the parabola go up or down along the y -axis. Also, x and h are in the parentheses together because h is the x coordinate. Horizontal- $x = a(y-k)^2 + h$.

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When working with circle conic sections, we can derive the

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equation of a circle by using coordinates and the distance formula. The equation of a circle is $(x - h)^2 + (y - k)^2 = r^2$ where r is equal to the radius, and the coordinates (x,y) are equal to the circle center.

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A conic section (or simply conic) is a curve obtained as the intersection of the surface of a cone with a plane; the three types are parabolas, ellipses, and hyperbolas. A conic section can be graphed on a coordinate plane. Every conic section has certain features, including at least one ...

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Directrix: $y = k - c$. Inverse of the Conic Form Horizontal equation. Conic Form Horizontal. $x = 1/4c (y - k)^2 + h$. c - Distance between the focus and the vertex. Coordinates of the vertex: (h,k) ...

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The general equation for any conic section is $Ax^2 + Bxy + Cy^2 + Dx + Ey + F = 0$ where A, B, C, D, E and F are constants. As we change the values of some of the constants, the shape of the corresponding conic will also change.

~~Conic Sections and Standard Forms of Equations~~

Conics Definition: In Algebra II, the concept of a conic section or simply conics is a geometrical equation for a curve that is formed when a plane intersects a double napped cone; this includes circles, ellipses, parabolas and hyperbolas.

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Conic sections mc-TY-conics-2009-1 In this unit we study the conic sections. These are the curves obtained when a cone is cut by a plane. We find the equations of one of the curves, the parabola, by using an alternative description in terms of points whose distances from a fixed point and a fixed line are equal.

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Ellipse: a closed conic section shaped like a flattened circle and formed by an inclined plane that does not cut the base of the cone. - (h,k) is the center - a is how far left and right

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CONIC SECTIONS 193 Focal distance The focal distance of any point (x, y) on the hyperbola $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$ is $|x| - a$ from the nearer focus $e|x| + a$ from the farther

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The Desmos Math Art Contest is open yearly to students ages 13-18 to showcase their graphing calculator skills, creativity, and love of math.

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General Equation of a Conic Section: $Ax^2 + Bxy + Cy^2 + Dx + Ey + F = 0$
 $Ax^2 + Bxy + Cy^2 + Dx + Ey + F = 0$ $Ax^2 + Bxy + Cy^2 + Dx + Ey + F = 0$. If the $B^2 - 4AC < 0$ coefficient is

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zero, then the conic section is oriented horizontally or vertically. The equation can be put into one of the specific forms above by completing the square. An equation of a conic section is given below.

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