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 When working with circle conic sections, we can derive the 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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 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.  
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 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 these 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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 $Ax^2 + Bxy + Cy^2 + Dx + Ey + F = 0$ . If the  $B$  coefficient is 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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