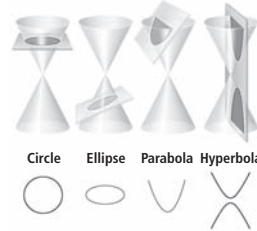


Chapter 10 (p. 722, 10-1)

**conic section**

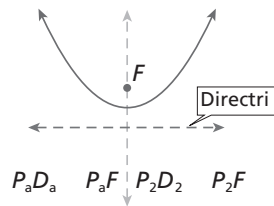
**conic section:** A plane figure formed by the intersection of a double right cone and a plane. Examples include circles, ellipses, hyperbolas, and parabolas.



Chapter 10 (p. 751, 10-5)

**directrix**

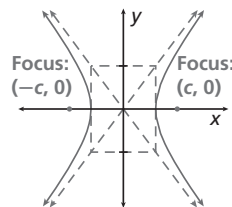
**directrix:** A fixed line used to define a *parabola*. Every point on the parabola is equidistant from the directrix and a fixed point called the *focus*.



Chapter 10 (p. 744, 10-4)

**focus (pl. foci) of a hyperbola**

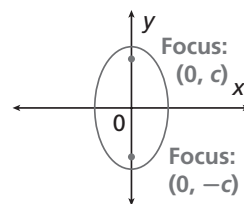
**focus (pl. foci) of a hyperbola:** One of two fixed points  $F_1$  and  $F_2$  that are used to define a hyperbola. For every point  $P$  on the hyperbola,  $|PF_1 - PF_2|$  is constant.



Chapter 10 (p. 744, 10-4)

**focus (pl. foci) of an ellipse**

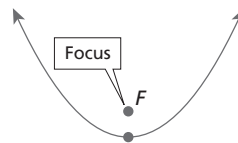
**focus (pl. foci) of an ellipse:** One of two fixed points  $F_1$  and  $F_2$  that are used to define an ellipse. For every point  $P$  on the ellipse,  $PF_1 + PF_2$  is constant.



Chapter 10 (p. 751, 10-5)

**focus (pl. foci)  
of a parabola**

**focus (pl. foci) of a parabola:** A fixed point  $F$  used with a *directrix* to define a *parabola*.



Chapter 10 (p. 768, 10-7)

**nonlinear system  
of equations**

**nonlinear system of equations:** A system in which at least one of the equations is not linear.

$$\begin{cases} y = 2x^2 \\ y = -3x^2 + 5 \end{cases}$$

Chapter 10 (p. 731, 10-2)

**tangent line**

**tangent line:** A line that is in the same plane as a circle and intersects the circle at exactly one point.

