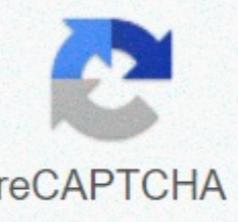




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**Determine the vertex focus directrix and axis of symmetry**

Learning Outcomes Identify and label the vertex, axis of symmetry, focus, directrix, and endpoints of the focal diameter given the equation of a parabola in standard form. Find the equation of a parabolic shaped object given dimensions. Like other graphs we've worked with, the graph of a parabola can be translated. If a parabola is translated  $[h]$  units horizontally and  $[k]$  units vertically, the vertex will be  $[h,k]$ . This translation results in the standard form of the equation we saw previously with  $x$  replaced by  $x-h$  and  $y$  replaced by  $y-k$ . To graph parabolas with a vertex  $[h,k]$  other than the origin, we use the standard form  $[y-k]^2=4p(x-h)$  for parabolas that have an axis of symmetry parallel to the x-axis, and  $[x-h]^2=4p(y-k)$  for parabolas that have an axis of symmetry parallel to the y-axis. These standard forms are given below, along with their general graphs and key features. The table summarizes the standard features of parabolas with a vertex at a point  $[h,k]$ . Axis of Symmetry Equation Focus Directrix Endpoints of focal diameter  $y=k$   $[y-k]^2=4p(x-h)$   $[h+p, h+p+2p]$   $x=h-p$   $[h-p, h+p]$   $[x-h]^2=4p(y-k)$   $[h, h+2p]$   $y=k-p$   $[h-p, h+2p]$

(a) When  $p>0$ , the parabola opens right. (b) When  $p<0$ , the parabola opens up. (c) When  $p=0$  and the axis of symmetry is the x-axis, the parabola opens right. (d) When  $p=0$  and the axis of symmetry is the y-axis, the parabola opens up.

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