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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 $y=k$ $(y-k)^2=4p(x-h)$ $(h+p,k)$ $(h-p,k)$ $(h+p,k)$ $(h-p,k)$ $(h,k+2p)$ $(h,k-2p)$ $y=k$ $(x-h)^2=4p(y-k)$ $(h,k+p)$ $(h,k-p)$ $(h,k+p)$ $(h,k-p)$ $(h-2p,k)$ $(h+2p,k)$ (a) When $p>0$, the parabola opens right. (b) When $p<0$, the parabola opens left. (c) When $p>0$, the parabola opens up. (d) When $p<0$, the parabola opens down. If $p=0$ and the axis of symmetry is the x-axis, the parabola opens right. (b) When $p=0$ and the axis of symmetry is the y-axis, the parabola opens up.

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