**Conic Problems (Answers)**

1. Find the standard equation of the parabola with vertex at the origin and focus (2,0).

$$y^{2}=8x$$

1. Find the standard form of the equation of the parabola with vertex (2,1) and focus (2,4).

$$\left(x-2\right)^{2}=12(y-1)$$

1. Find the standard equation of the parabola with vertex at the origin and focus (-3/2,0).

$$y^{2}=-6x$$

1. Find the standard equation of the parabola with vertex at the origin and the directrix at $x=-1$.

$$y^{2}=4x$$

1. Find the standard equation of the parabola with vertex at the origin and the directrix at $y=-2$.

$$x^{2}=8x$$

1. Find the vertex, focus and directrix of the following parabolas:

|  |  |
| --- | --- |
| $$\left(x-1\right)^{2}=-8(y+2)$$Vertex: (1,-2)Focus: (1,-4)Directrix: $y=0$ | $$y^{2}=3x$$Vertex: (0,0)Focus: (3/4,0)Directrix: $x=-3/4$ |