$\qquad$

Determine the vertex, the $p$ value, the direction of opening, the focus, the equation for the directrix, and the equation for the axis of symmetry. Graph the vertex, the focus, the directrix, the axis of symmetry, as well as two additional points to complete the graph. Any non-integer values should be written as reduced fractions. No decimals!!


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4. $y^{2}-6 x=0$
$\operatorname{Vertex}(, \quad)$
$p=$ $\qquad$

Opens $\qquad$
Focus ( , )

Directrix $\qquad$

Axis of Symmetry $\qquad$

| $x$ | $y$ |
| :---: | :---: |
|  |  |
|  |  |

"

5. $(x-6)^{2}=-24(y+1)$
$\operatorname{Vertex}(\quad, \quad)$
$\qquad$

Opens
Focus ( , )

Directrix $\qquad$

Axis of Symmetry $\qquad$


6. $(y-2)^{2}=-3(x-7)$
$\operatorname{Vertex}(\quad, \quad)$
$p=$

Opens $\qquad$
Focus ( , )

Directrix $\qquad$

Axis of Symmetry $\qquad$




