

6. (cont.)

$$100Q^2 = 100P$$

$$Q^2 = 10P$$

$$P = x' \quad \text{AND} \quad Q = y'$$

$$y'^2 = 10x' \quad \text{BOTTOM}$$

$$(y' - 0)^2 = 10(x' - 0)$$

$$(y' - 0)^2 = 4 \left(\frac{10}{4} \right) (x' - 0)$$

$$\begin{array}{ccc} \downarrow & \downarrow & \downarrow \\ k=0 & p=\frac{5}{2} & h=0 \end{array}$$

$$\text{Vertex: } (h, k) = (0, 0)$$

$$\text{Focus: } (h+p, k)$$

$$(0 + \frac{5}{2}, 0)$$

$$(\frac{5}{2}, 0)$$

$$\text{DIR: } x = h - p$$

$$x = 0 - \frac{5}{2}$$

$$x = -\frac{5}{2}$$

