

3. Focus:  $(0, 5)$  VERTEX:  $(0, 0)$   
 "TOP"  
 $h=0$   $k+p=5$   $h=0$   $k=0$

$$0+p=5$$

$$h=0 \quad p=5 \quad k=0$$

$$(X-h)^2 = 4p(Y-k)$$

$$(X-0)^2 = 4(5)(Y-0)$$

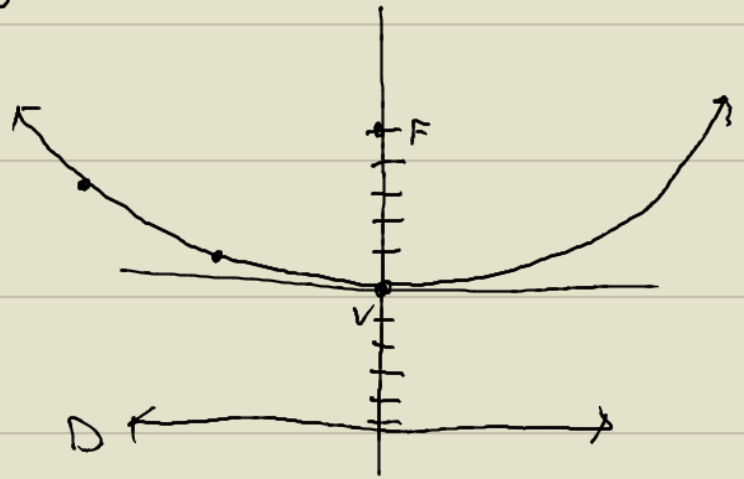
$$X^2 = 20Y$$

DIR.

$$Y = k - p$$

$$Y = 0 - 5$$

$$Y = -5$$



4. VERTEX:  $(5, -1)$  Focus:  $(8, -1)$   
 "Bottom"  
 $h=5$   $k=-1$   $h=8$   $k=-1$

$$h+p=8$$

$$5+p=8$$

$$p=8-5$$

$$p=3$$

$$h=5 \quad k=-1 \quad p=3$$

$$(Y-k)^2 = 4p(X-h)$$

$$(Y-(-1))^2 = 4(3)(X-5)$$

$$(Y+1)^2 = 12(X-5)$$

DIR

$$X = h - p$$

$$X = 5 - 3$$

$$X = 2$$

