

Honors Algebra II/Trig
9.1 Day 4 Worksheet

Name: Key
Period: _____

$$1. \quad x^2 + 8x = 4y - 8$$

$$\quad \quad +16 \quad +16$$

$$(x+4)^2 = 4y+8$$

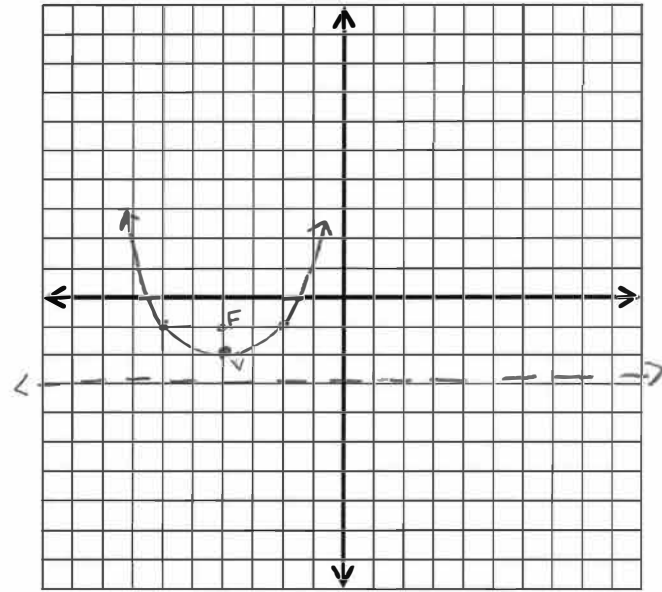
$$(x+4)^2 = 4(y+2)$$

$$P=1 \quad L.R=4$$

$$V(-4, -2)$$

opens \uparrow

$$\text{directrix } y = -3$$



$$2. \quad x = y^2 + 2y - 3$$

$$x+3 = y^2 + 2y$$

$$\quad +1 \quad +1$$

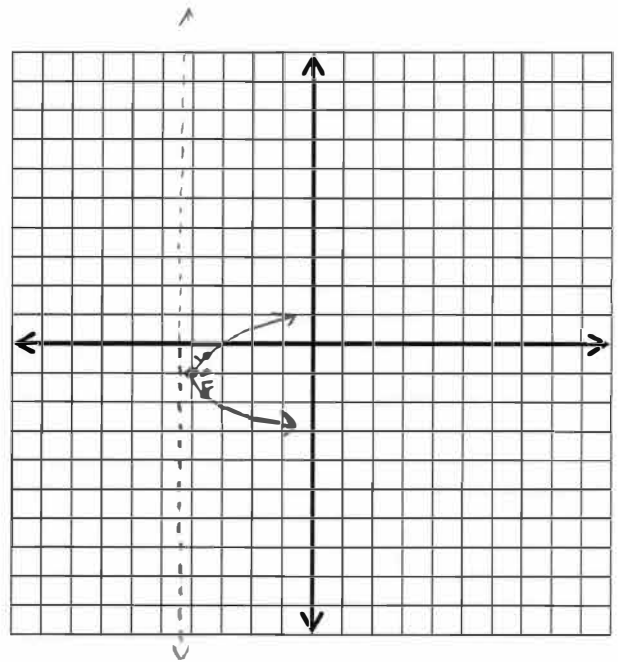
$$(x+4) = (y+1)^2$$

$$P = 1/4$$

$$V(-4, -1) \text{ opens } \rightarrow$$

$$F(-3.75, -1)$$

$$\text{directrix } x = -4.25$$

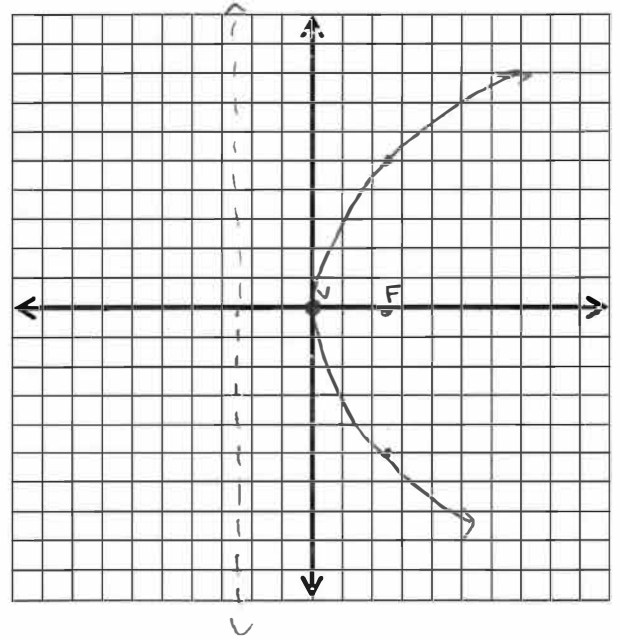


3. $10x=y^2$

$V(0,0)$ $F(2.5,0)$

$p=2.5$

directrix $x=-2.5$



4. $-4x=y^2$

$p=-1$

$V(0,0)$

$F(-1,0)$

dir. $x=1$

