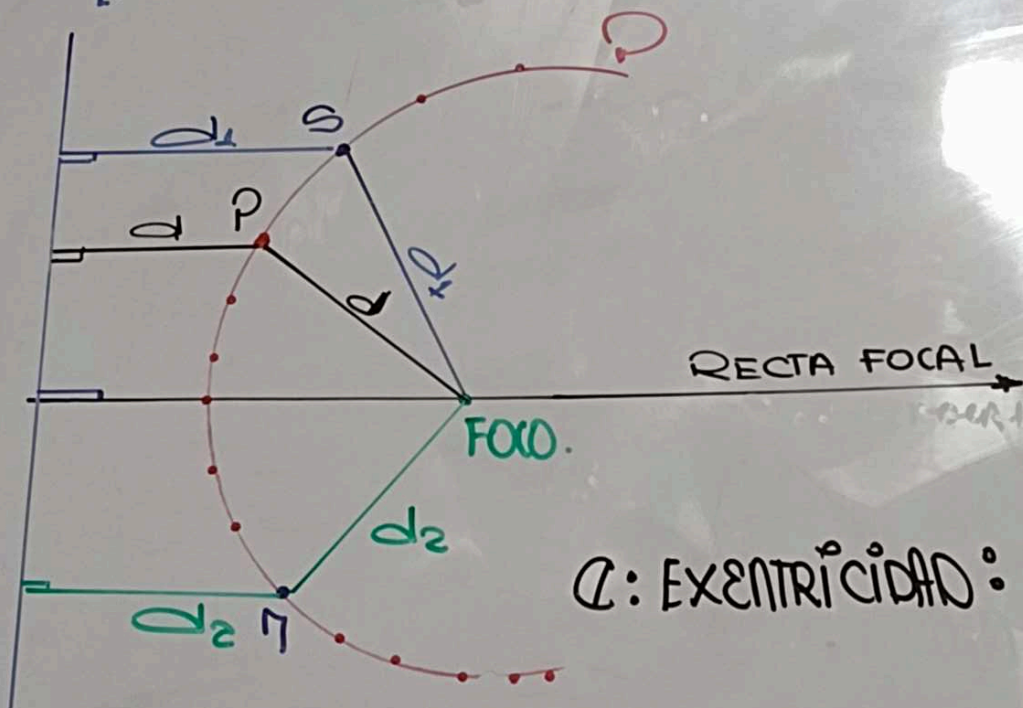
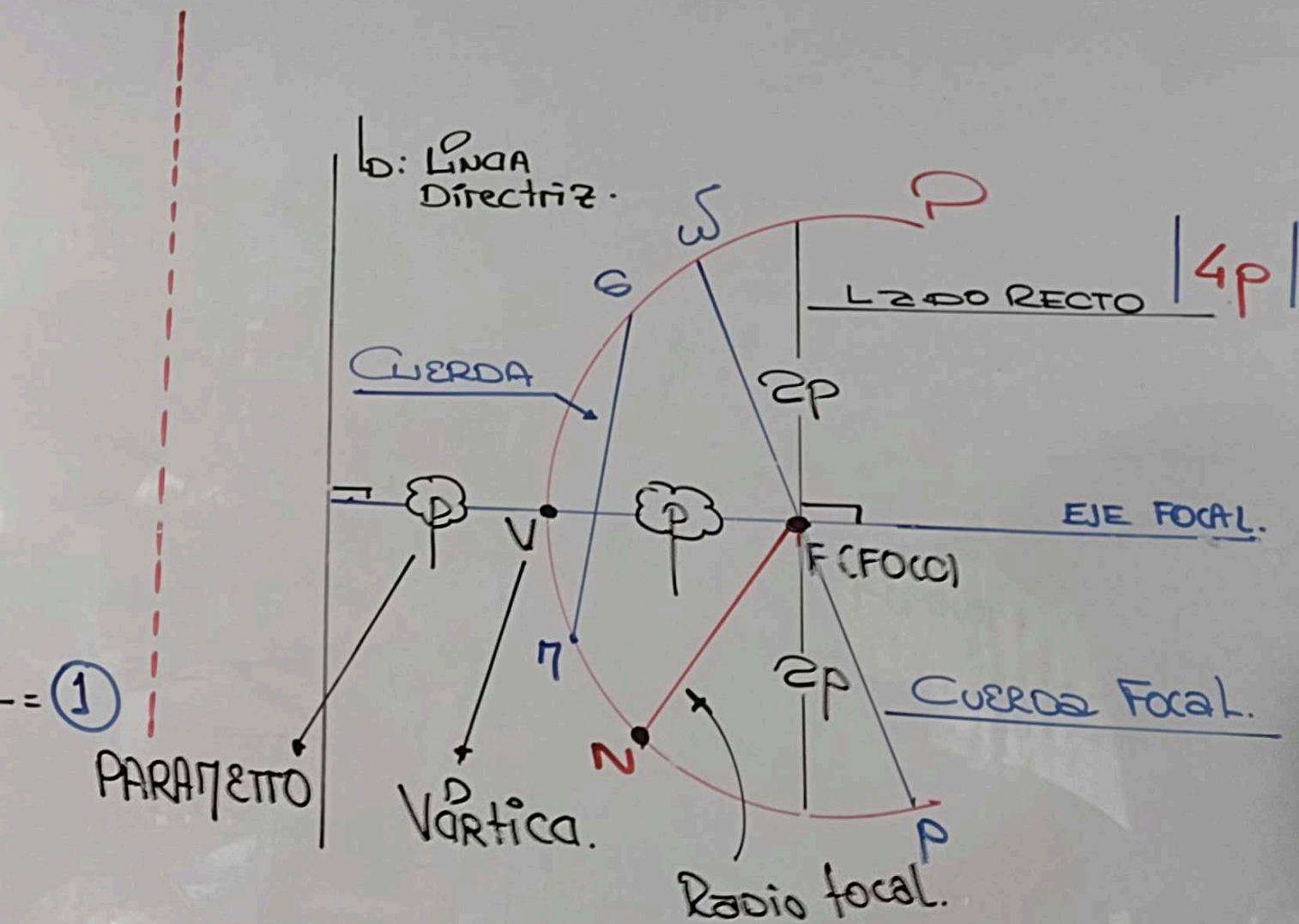


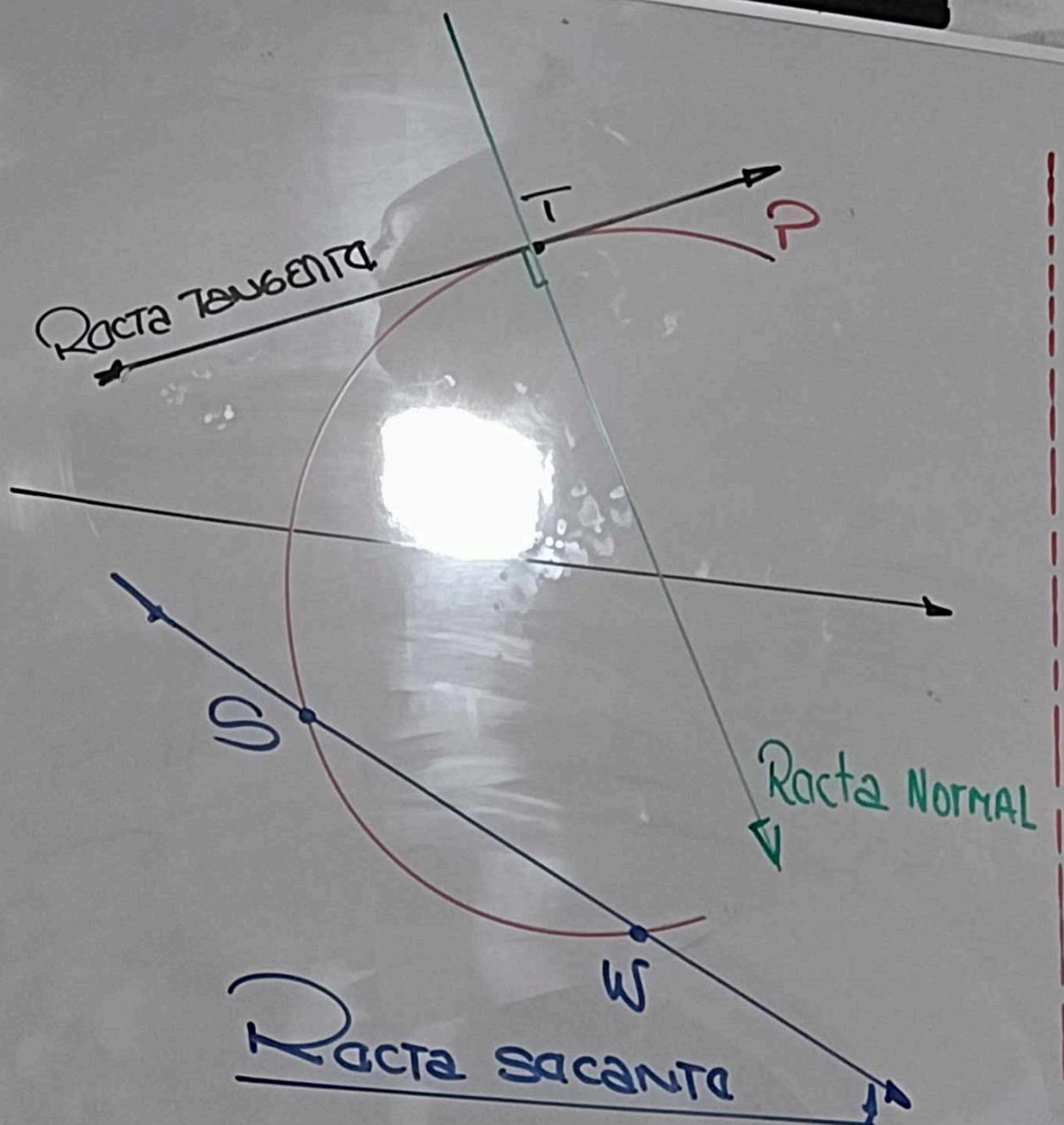
Parabola

línea directriz.

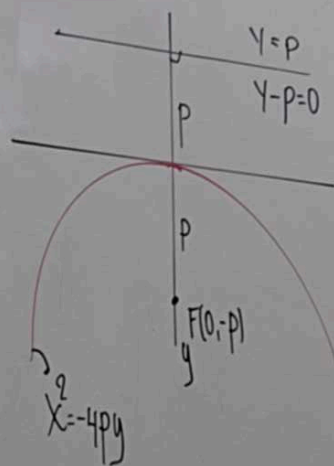
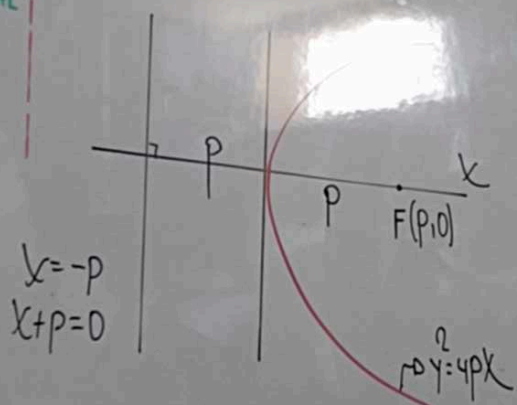
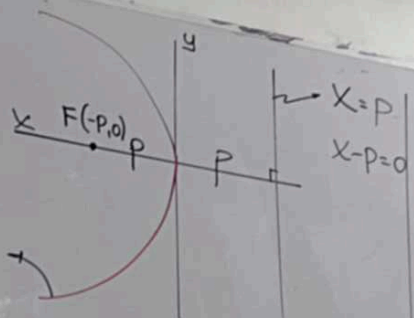
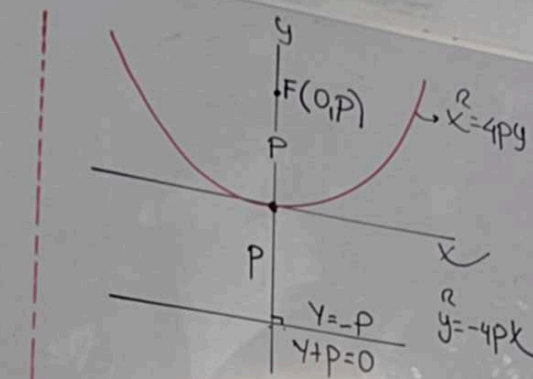


e : EXCENTRICIDAD: $\frac{D(P, L_0)}{D(P, F)} = 1$





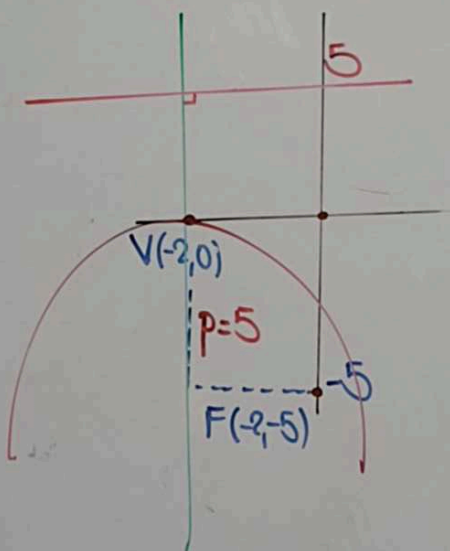
Recta Normal



$y^2 = 4x$
 $V(0,0)$
 $F(0,1)$
 $4p = 12$
 $p = 3$
 $l: x = -3$
 $x + 3 = 0$
 $l: 12$

$(x-2)^2 = -4(y+1)$
 $V(2,-1)$
 $F(2,-2)$
 $4p = -4$
 $p = -1$
 $l: y = 0$
 $l: 4$

1 $(x+2)^2 = -20y$
 $V(-2, 0)$ $4p = -20$
 $F(-2, -5)$ $p = -5$
 $x^2 + 4x + 4 = -20y$
 $x^2 + 4x + 20y + 4 = 0$
 $l_D: y = 5$
 $y - 5 = 0$
 $l_R: 20$



3 $P: x^2 - 6x + 8y - 23 = 0$
 $x^2 - 6x + 9 - 9 + 8y - 23 = 0$
 TCP
 $(x-3)^2 + 8y - 32 = 0$
 $(x-3)^2 = -8y + 32$
 $(x-3)^2 = -8(y-4)$
 $l_R = 8$

$V(3, 4)$
 $F(3, 0)$
 $l_D: y = 8$

4

$$-23=0$$

$$V(3,4)$$

$$F(3,2)$$

$$4p = -8$$

$$p = -2$$

$$L_D: y = 6$$

$$y - 6 = 0$$

$$V(h,k)$$

$$P$$

$$F = 12p - 3k + 7$$

$$(4) P: 3y^2 - 5x - 18y + 37 = 0$$

$$3y^2 - 18y - 5x + 37 = 0$$

$$3\{y^2 - 6y + 9 - 9\} - 5x + 37 = 0$$

$$3(y-3)^2 - 27 - 5x + 37 = 0$$

$$3(y-3)^2 - 5x + 10 = 0$$

$$3(y-3)^2 = 5x - 10$$

$$3(y-3)^2 = 5(x-2)$$

$$(y-3)^2 = \frac{5}{3}(x-2)$$

$$V(2,3)$$

$$4p = \frac{5}{3}$$

$$V(h,k)$$

$$12p = 5$$

$$h = 2$$

$$k = 3$$

$$F = 5 - 3(3) + 2$$

$$(-2)$$

$$(2)$$

$$F(4,0)$$

$$P(2,2)$$

②

$$F(4,0)$$

$$P(2,2)$$

$$D = \sqrt{(4-2)^2 + (2-0)^2}$$

$$4+4$$

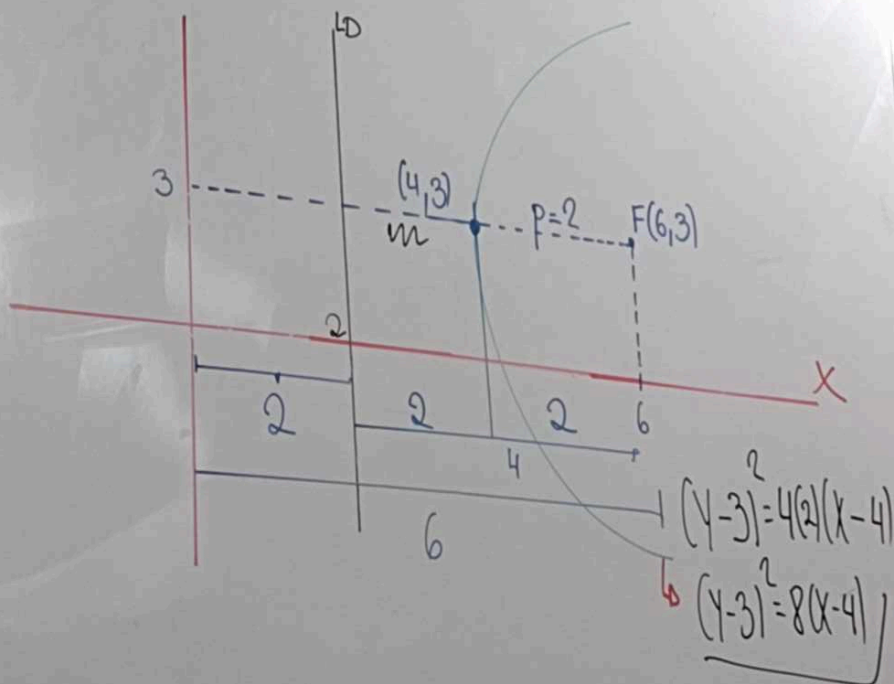
$$\sqrt{8}$$

$$(2\sqrt{2})$$

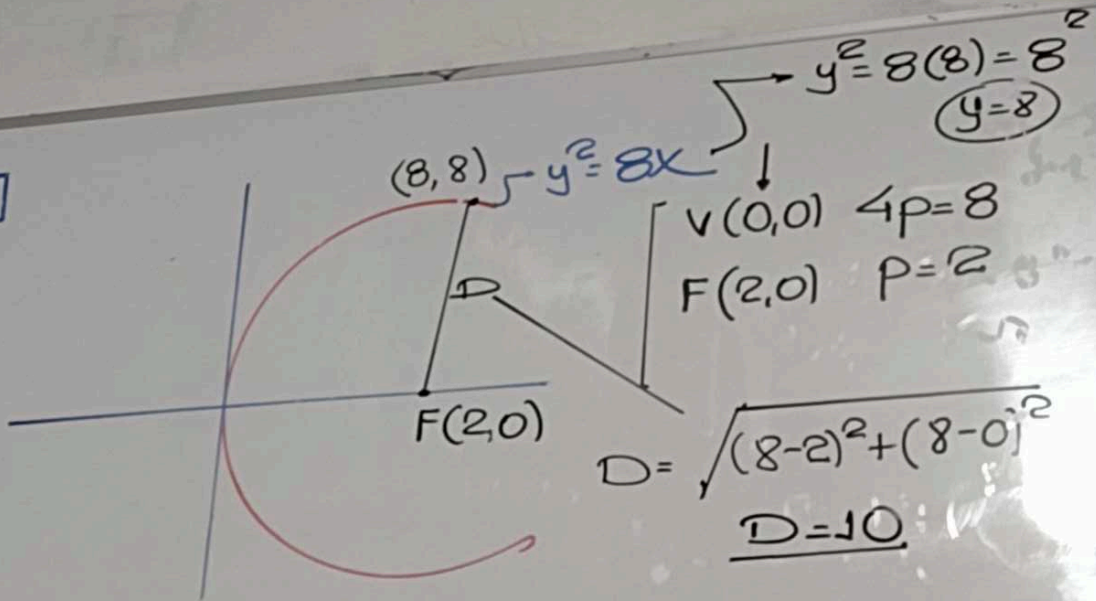
①

$$F(6,3)$$

$$L: X=2$$

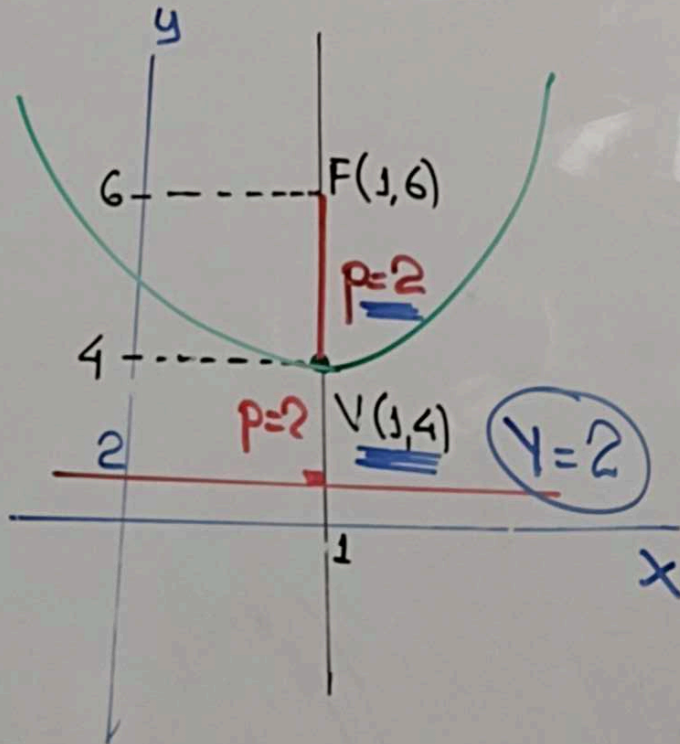


5



6

$V(1,4)$
 $F(1,6)$
 $(x-1)^2 = 4(2)(y-4)$
 $(x-1)^2 = 8(y-4)$



7

7

$$y^2 + 8x - 4y - 28 = 0$$

$$y^2 - 4y + 4 - 4 + 8x - 28 = 0$$

$$(y-2)^2 + 8x - 32 = 0$$

$$(y-2)^2 = -8x + 32$$

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

$$V(4,2)$$

$$4p = -8$$

$$F(2,2)$$

$$p = -2$$

$$LD: X = 6$$

$$X - 6 = 0$$

8

$$y^2 = 20(7) = 140$$

$$y = \sqrt{140}$$

$$P(7, y)$$

$$P(7, \sqrt{140})$$

$$D = \sqrt{4 + 140}$$

$$\sqrt{144} = 12$$

$$F(5,0)$$

$$y^2 = 20x$$

$$V(0,0)$$

$$F(5,0)$$

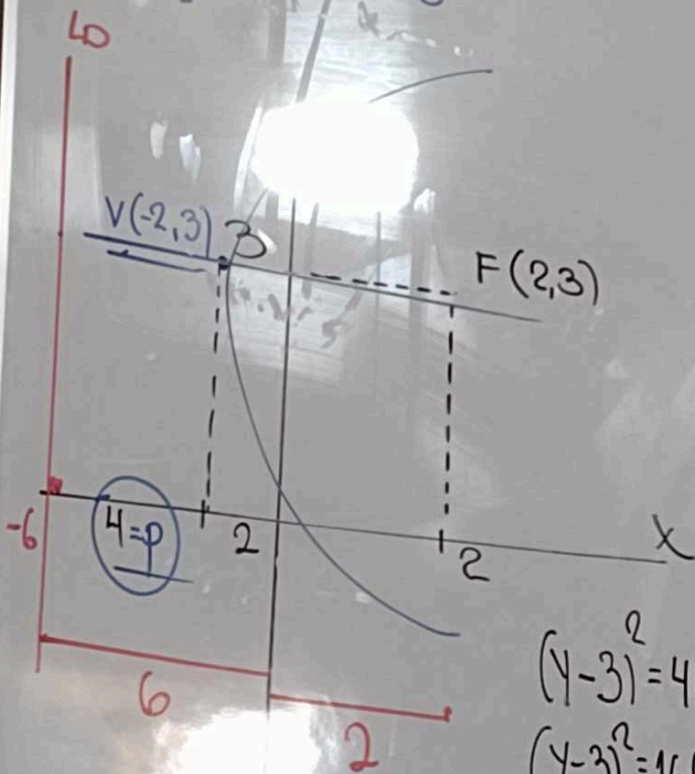
$$4p = 20$$

$$p = 5$$

9

$F(2,3)$

$L_D: x = -6$



$$(y-3)^2 = 4(4)(x+2)$$

$$(y-3)^2 = 16(x+2)$$

$$y^2 - 6y + 9 = 16x + 32$$

$$y^2 - 6y - 16x - 23 = 0$$

10

$V(-4, 3)$

$F(-1, 3)$

