UDS

UNIVERSIDAD DEL SUROESTE

BIOMATEMATICAS

"PARABOLA"

CATEDRATICO:

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-...- EJERCICIOS -...-

A) $F(2,0)$ $V(0,0)$

$F(0;P)$ $P=2$
$y^2 = 4px = y^2 = 4(2)x = y^2 = 8x$

$LR = |4p| = |4(2)| = 8 LR$
$P > 0$ $D = x = -P = x = -2$

B) $F(0,-4)$ $V(0,0)$

$F(0, \pm P)$ $P = -4$
$x^2 = 4py = x^2 = 4(-4)y = x^2 = -16$

$LR = |4p| = |4(-4)| = -16 LR$
$P < 0$ $D = y = -P = y = 4$

C) $x = -2$ $V(0,0)$

$x = -2 = D$ $P = +2$
$y^2 = 4px = y^2 = (4(+2)x) = y^2 = +8x$

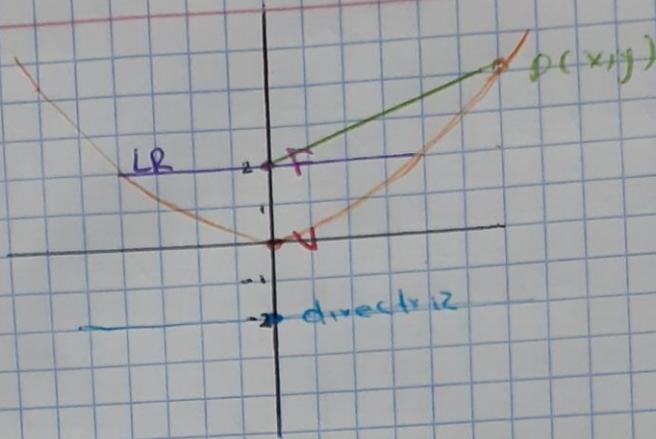$F(0, \pm P) = F(0, \pm 2)$
$LR = |4p| = |4(+2)| = +8 = LR$

d) $y = -3$ $V(0,0)$

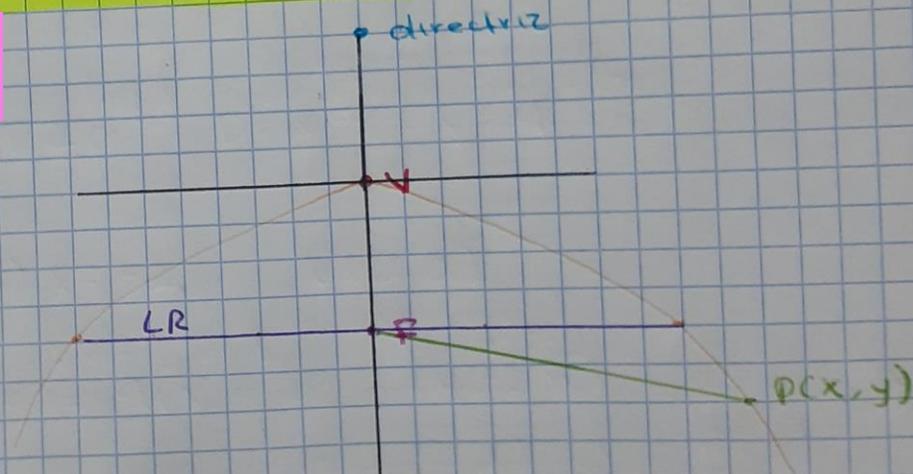$y = -3 = D$ $P = 3$
$x^2 = 4py = x^2 = 4(3) = x^2 = 12y$
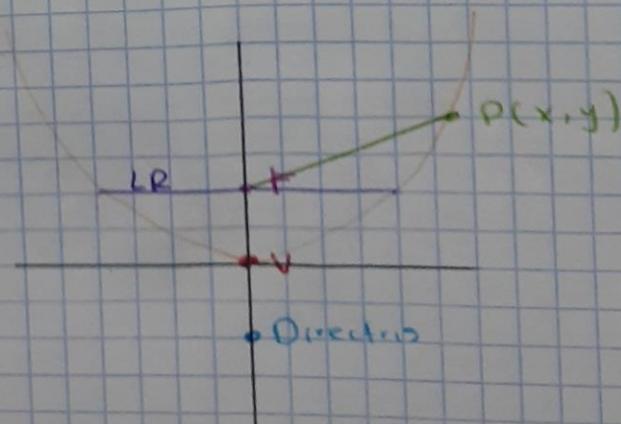$F(0, \pm P) = F(0, \pm 3)$
$LR = |4p| = |4(3)| = 12 = LR$

GRAFICAS

A)

$P(x,y)$

LR   F

V

directriz

B)

directriz

V

LR   F

$P(x,y)$

C)

$P(x,y)$

LR   F

V

Directriz

$\mathcal{D})$

directriz

V

LR   F

P(x,y)