

Biomatemáticas
Segundo semestre

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Tarea 3-3
Determina la ec. de las parábolas

a) $V(-2, -1)$ y $F(0, 1)$

$k = -1$, $h = -2$

$h + p = 0$, $-2 + p = 0$

$p = 2$

$D = x = h - p = -2 - 2 = -4 = x$

$(y - k)^2 = 4p(x - h)$

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

$(y + 1)^2 = -8(x - 2)$

$(y + 1)^2 = -8x + 16$

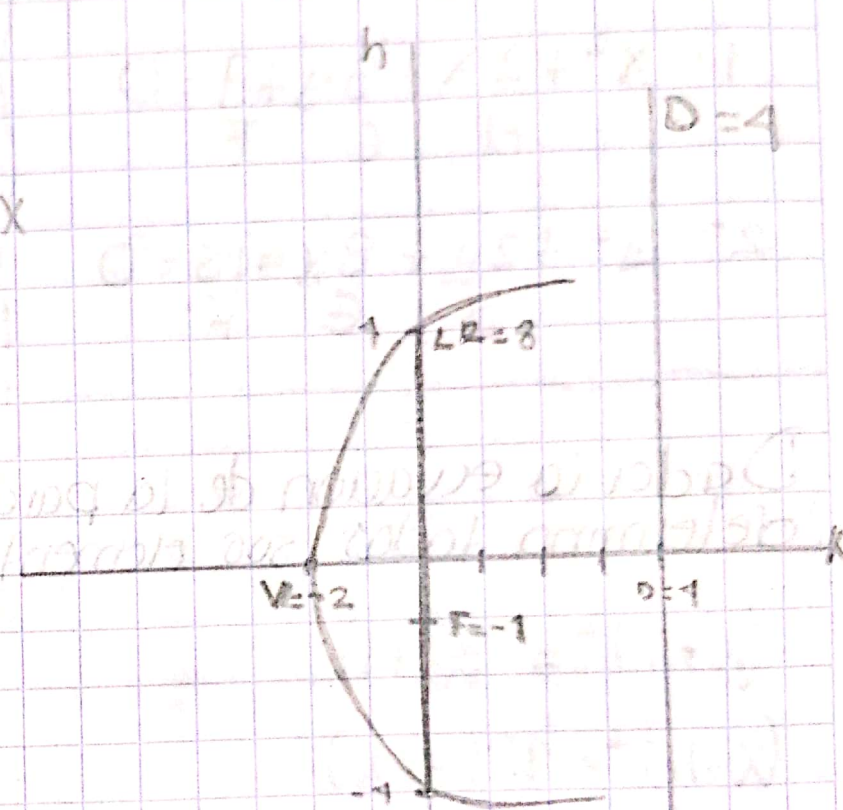
$y^2 + 2y + 1 = -8x + 16$

$y^2 + 2y + 1 = -8x + 16$

$y^2 + 2y + 1 = -8x + 16 = 0$

$y^2 + 2y + 8x - 16 = 0$

$L.R. = |4p| = 4(-2) = 8$



b) $F(0, -3)$ y directriz $= y = -1$

$$(x-h)^2 = 4p(y-k)$$

$$(x-0)^2 = 4(1)(y-2)$$

$$(x-0)^2 = -4(y-1)$$

$$F(0, -3)$$

$$D = y = 1$$

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

$$LR = 4$$

