



**NOMBRE DEL ALUMNO: MARIO DE JESUS
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LICENCIATURA: MEDICINA HUMANA

MATERIA: BIOMATEMATICAS

**NOMBRE DEL TRABAJO: ecuación de
parábola**

$$a) V(-2, -1) \text{ y } F(0, -1)$$

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

$$V(h, k) = V(-2, -1)$$

$$p = 2$$

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

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

$$y^2 - 2y + 1 = 18x + 16$$

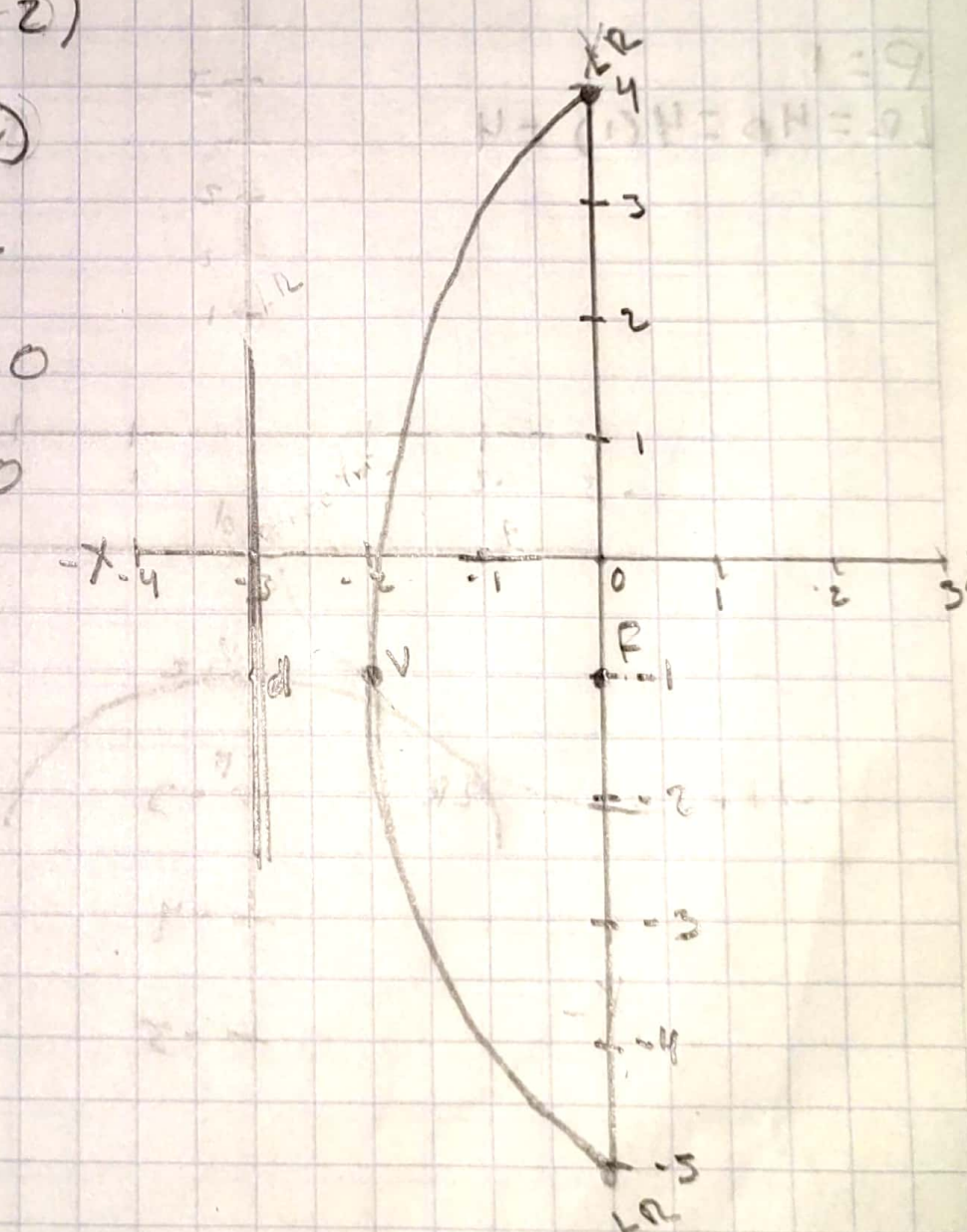
$$y^2 - 2y + 1 - 18x - 16 = 0$$

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

$$LR = 4p = 4(2) = 8$$

$$LR = 4$$

$$LR = 4$$



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

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

$$d = y = -1$$

$$V(0, -2)$$

$$F(0, -3)$$

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

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

$$p = 1$$

$$LR = 4p = 4(1) = 4$$

