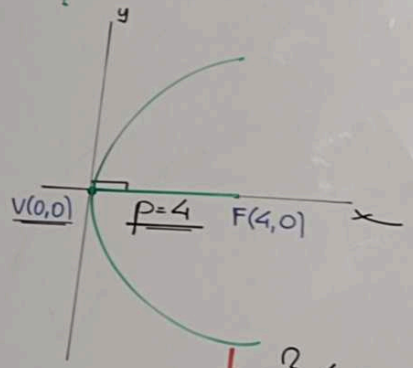
1

V(0,0) ✓
F(4,0) ✓

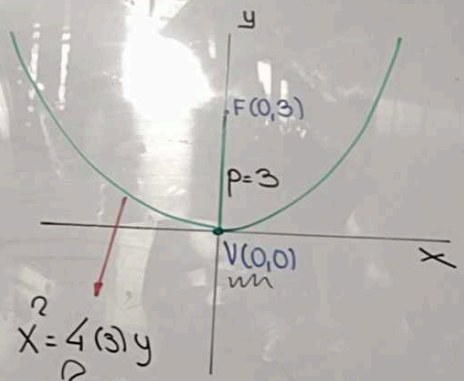


$y^2 = 4px$

$y^2 = 16x$

2

V(0,0) ✓
F(0,3) ✓



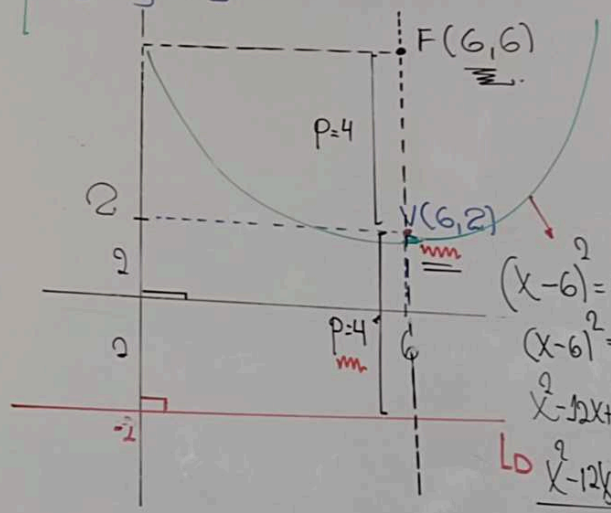
$x^2 = 4(3)y$

$x^2 = 12y$

$x^2 - 12y = 0$ CANÓNICA

3

V(6,2) ✓
LD: $y = -2$ ✓



$(x-6)^2 = 4(4)(y-2)$

$(x-6)^2 = 16(y-2)$ CANÓNICA

$x^2 - 12x + 36 = 16y - 32$

$x^2 - 12x - 16y + 68 = 0$

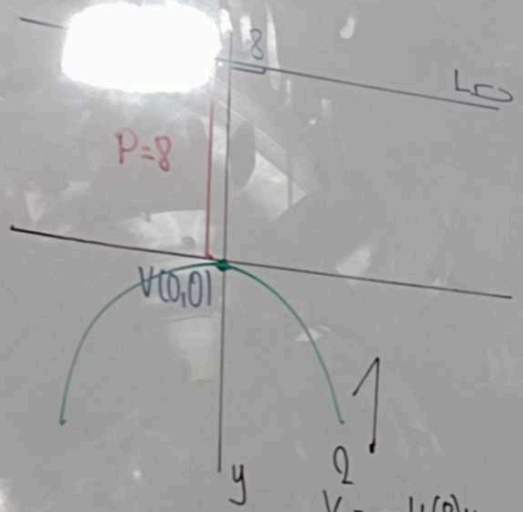
GENERAL

4

4

$V(0,0)$

LD: $y = 8$



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

$x^2 = -32y$

5

$y^2 = 2x + 12$

$x = 0 \Rightarrow y^2 = 12$

$y^2 - 12 = 0$

$y^2 - \sqrt{12}^2 = 0$

$(y + \sqrt{12})(y - \sqrt{12}) = 0$

$y = -\sqrt{12}$

$(0, \sqrt{12})$, $(0, -\sqrt{12})$

$(0, 2\sqrt{3})$, $(0, -2\sqrt{3})$

6

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

0

$(x-2)^2 = 16$

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

$(x-2+4)(x-2-4) = 0$

$(x+2)(x-6) = 0$

$x = -2 \quad x = 6$

$(-2, 0) \quad (6, 0)$

7

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

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

$V(2, -2)$ $4p = 8$

$F(2, 0)$ $p = 2$

LD: $y = -4$

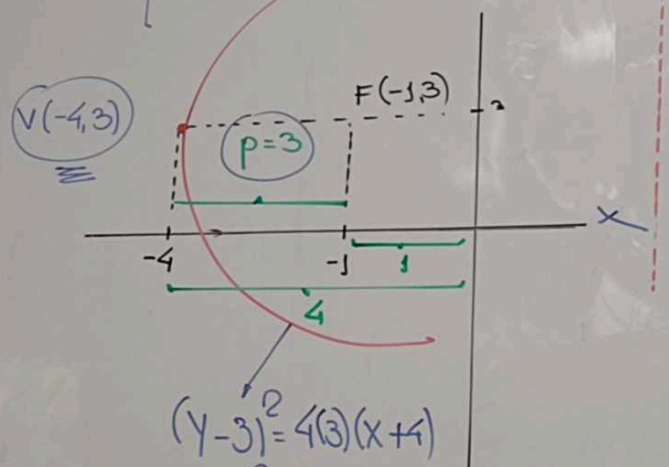
$y + 4 = 0$

LR: 8

8

$V(-4,3)$

$F(-1,3)$



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

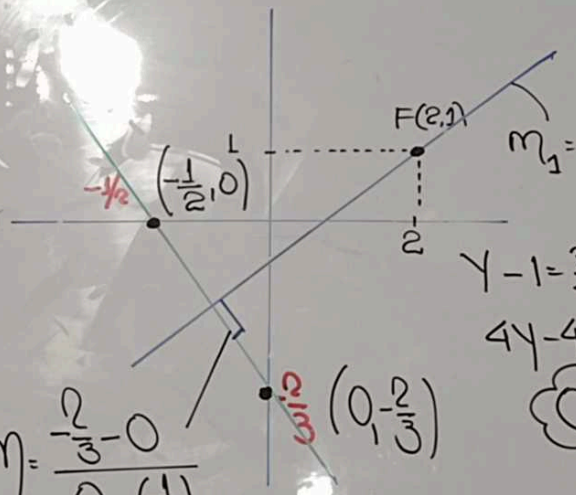
$y^2 - 6y + 9 = 12x + 48$

$y^2 - 6y - 12x - 39 = 0$

9

$F(2,1)$

$L_D: 4x + 3y + 2 = 0$



$m = \frac{-\frac{2}{3} - 0}{0 - \left(-\frac{1}{2}\right)}$

$m = \frac{-\frac{2}{3}}{\frac{1}{2}} = -\frac{4}{3}$

$\therefore m \cdot m_1 = -1$

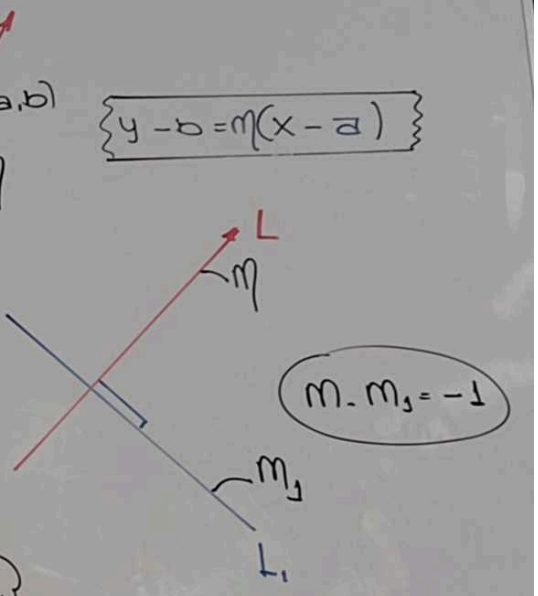
$-\frac{4}{3} m_1 = -1$

$m_1 = \frac{3}{4}$

$Y - 1 = \frac{3}{4}(x - 2)$

$4Y - 4 = 3x - 6$

$0 = 3x - 4y - 2$



$y - b = m(x - a)$

$m \cdot m_1 = -1$

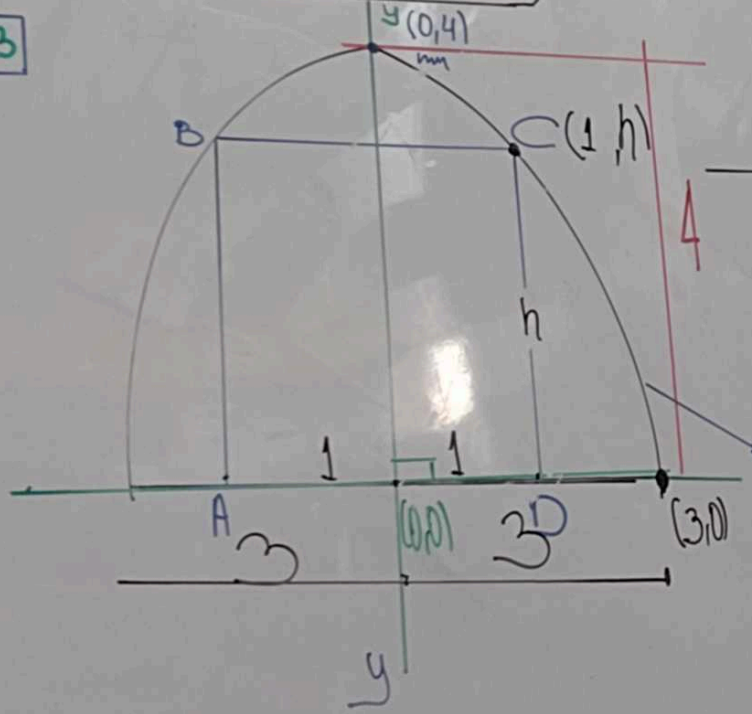
Rectas Concidentes:

$L: Ax+By+C=0$

$L_1: Mx+Ny+P=0$

$$\frac{A}{M}=\frac{B}{N}=\frac{C}{P}$$

13



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

$3^2=-4p(0-4)$

$\frac{9}{4}=4p$

$x^2=-\frac{9}{4}(y-4)$

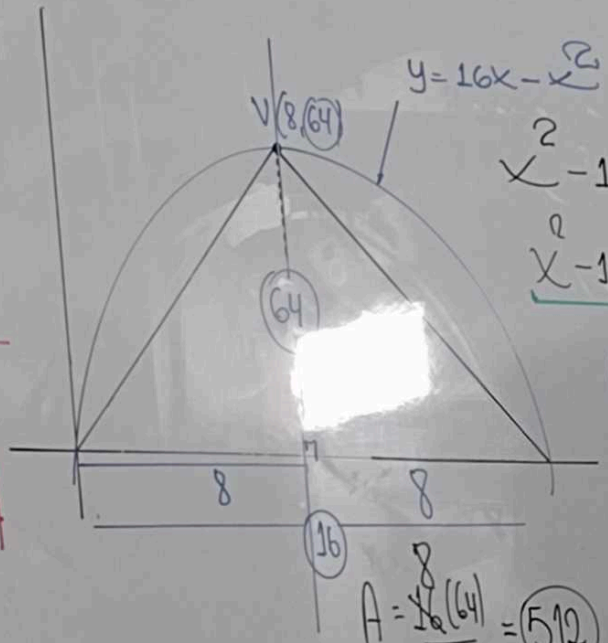
$1^2=-\frac{9}{4}(h-4)$

$4=-9h+36$

$9h=32$

$h=\frac{32}{9}$

10



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

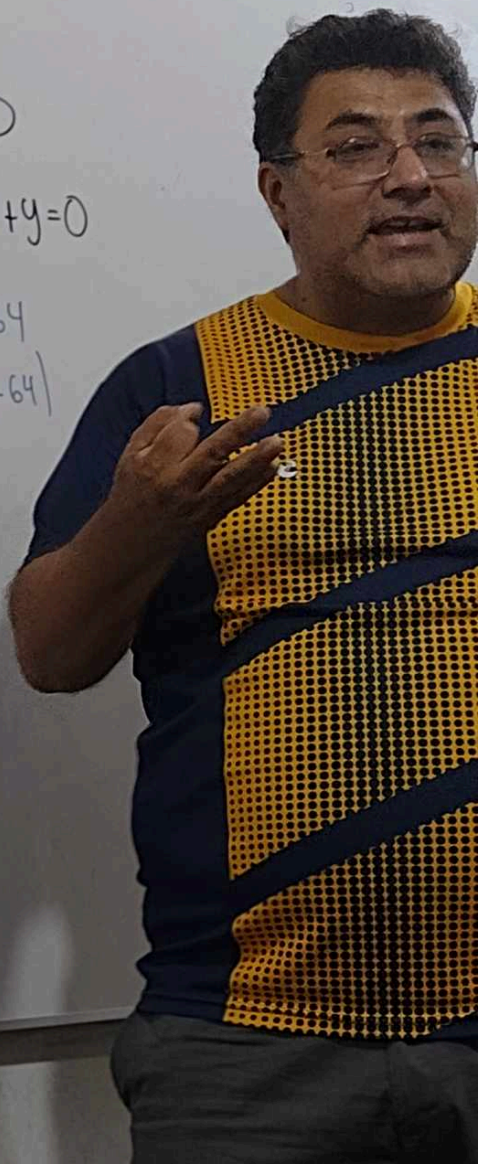
$x^2-16x+64-64+y=0$

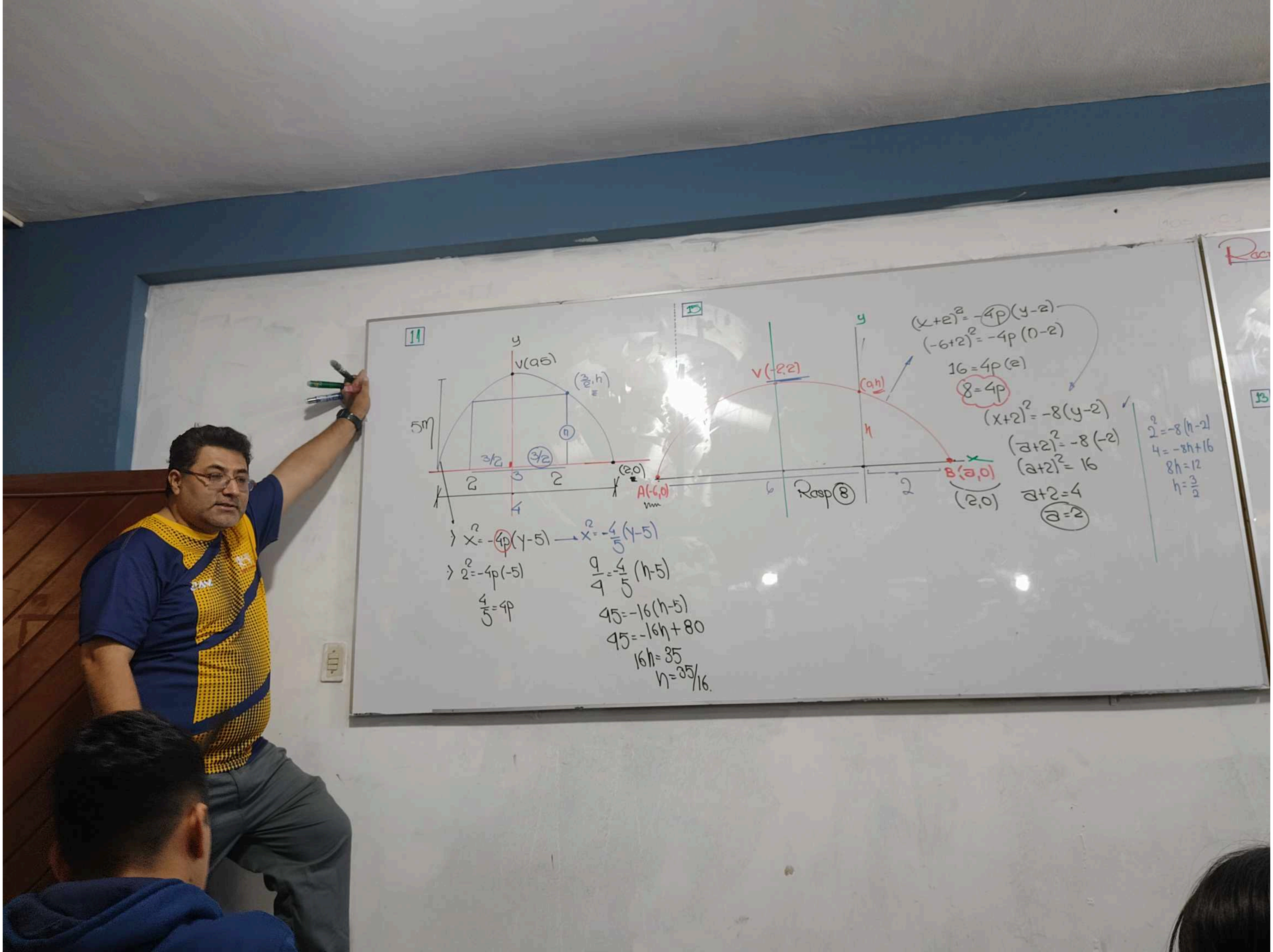
$(x-8)^2=-y+64$

$(x-8)^2=-(y-64)$

$V(8,64)$

$A=\frac{16(64)}{2}=512$




11
V(0,5)
5m
3/2
2
3
4
(2,0)
x² = -4p(y-5) → x² = -4/5 (y-5)
2² = -4p(-5)
4/5 = 4p
9/4 = -4/5 (h-5)
45 = -16(h-5)
45 = -16h + 80
16h = 35
h = 35/16.
15
V(-2,2)
(a,h)
A(-6,0)
B(a,0)
(2,0)
6
2
Rasp 8
(x+2)² = -4p(y-2)
(-6+2)² = -4p(0-2)
16 = 4p(2)
8 = 4p
(x+2)² = -8(y-2)
(a+2)² = -8(-2)
(a+2)² = 16
a+2 = 4
a = 2
2² = -8(h-2)
4 = -8h+16
8h = 12
h = 3/2