

Math 112

Tues. 10-2-12

Class Notes

Left-Right
Parabolas

$$X = ay^2 + by + c \quad a \neq 0$$

$$X = a(y-k)^2 + h$$

$$+a \rightarrow$$

$$-a \rightarrow$$

$$y = \frac{-b}{2a}$$

Ex 409

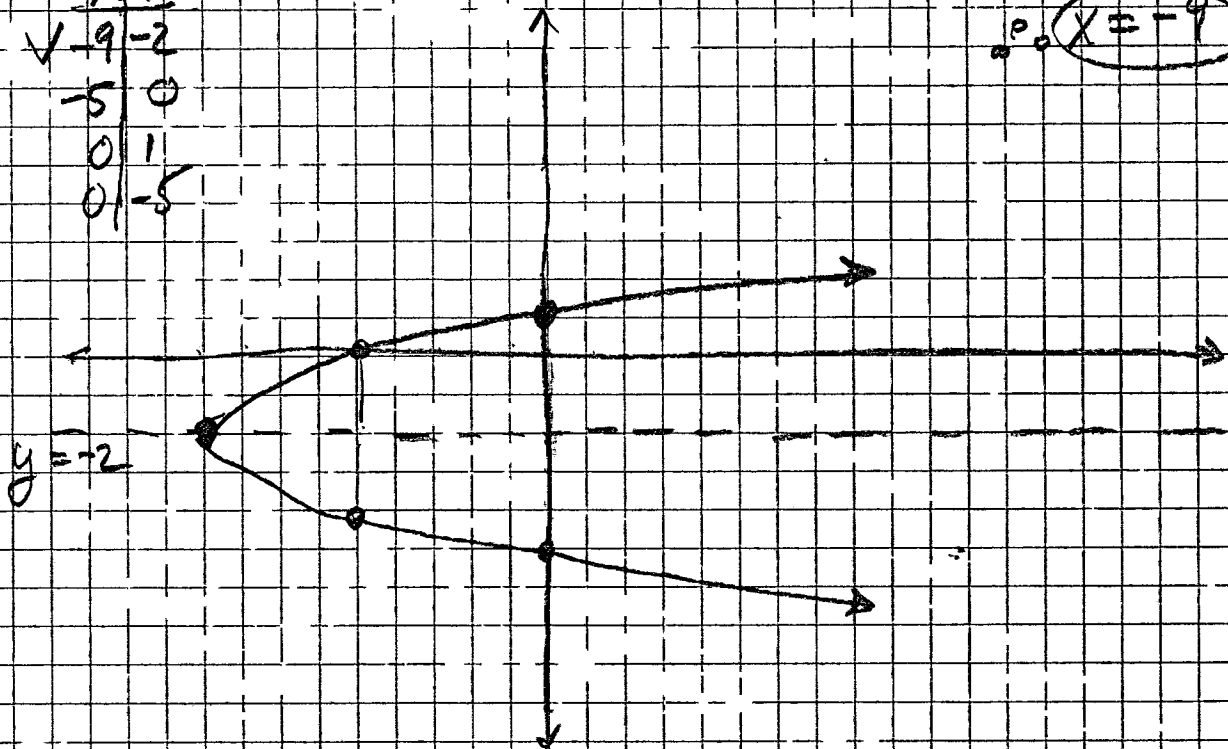
$$X = y^2 + 4y - 5$$

$$a=1$$

$$AOG = \frac{-b}{2a} = -2 = y$$

$$p.o. X = -9$$

X	Y
-9	-2
-5	0
0	1
0	-5



Find y-intercepts

Ref. Pg 409

$$0 = y^2 + 4y - 5$$

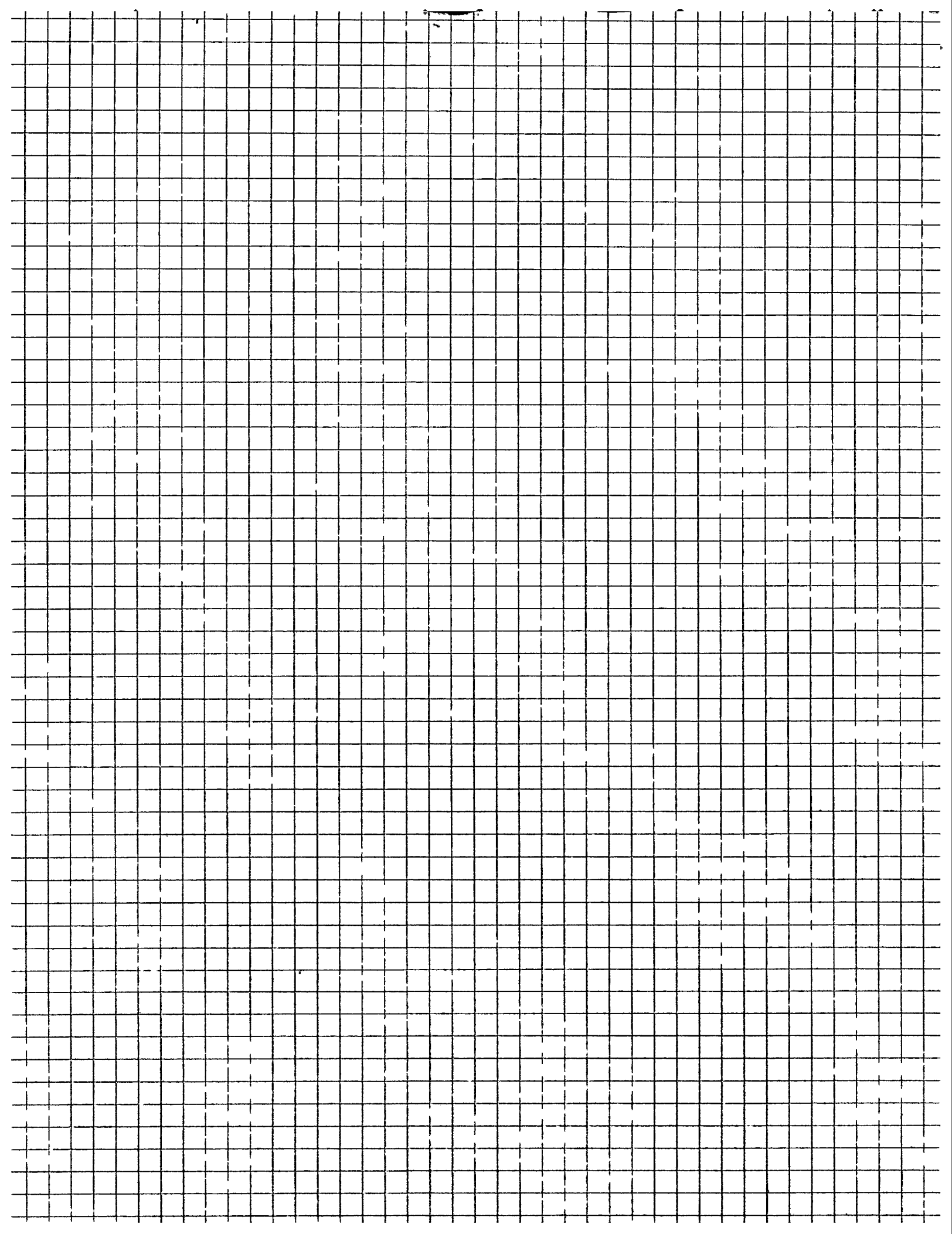
$$\text{sum} = -4$$

$$\text{prod} = -5$$

$$-1 \quad +5$$

$$(y-1)(y+5)$$

$$y = \{1, -5\}$$



(34) $y = -x^2 + 7x - 6$ General

$$y = -1 \left(x^2 - 7x + \left\{ \frac{7}{2} \right\}^2 \right) - 6 + \left\{ \frac{49}{4} \right\}$$

$y = -1 \left(x - \frac{7}{2} \right)^2 + \frac{25}{4}$ Vertex or Standard

X	Y
0	-6
1	

