Alg. 2
W:OS 8-29-12

(20) * $y = 2(x+1)^2 + 3$ VF

$y = a(x-h)^2 + k$ | $V(h,k)$ VF

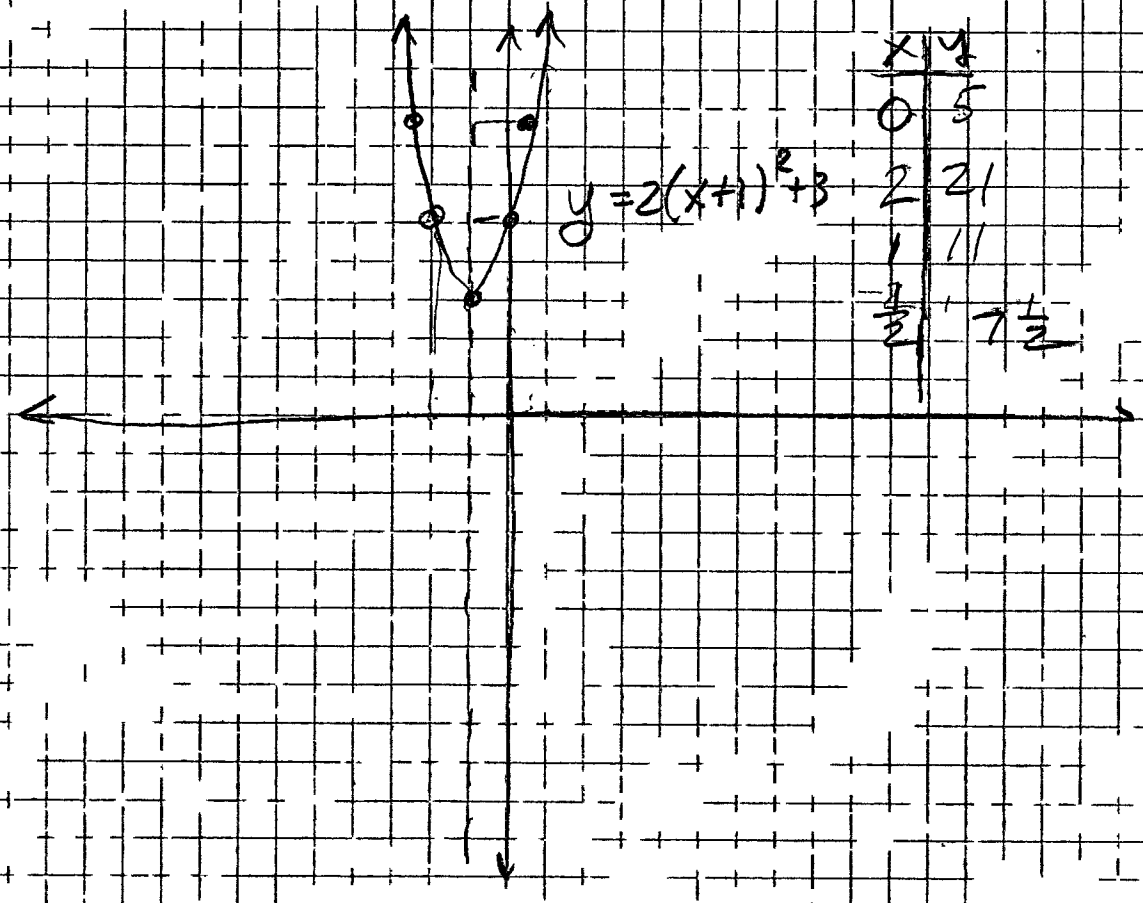
$y = ax^2 + bx + c$ $x = \frac{-b}{2a} = AOS$

$V\left(-\frac{b}{2a}, f\left(\frac{-b}{2a}\right)\right)$ SF

$a+ \curvearrowleft \quad a+ \curvearrowright$

* $y = 2x^2 + 4x + 5$ SF $\left(\frac{-b}{2a}, f(-1)\right)$

-1



x	y
0	5
2	21
$-\frac{1}{2}$	$7\frac{1}{2}$

(26) $y = x^2 - 2x + 4 = f(x)$

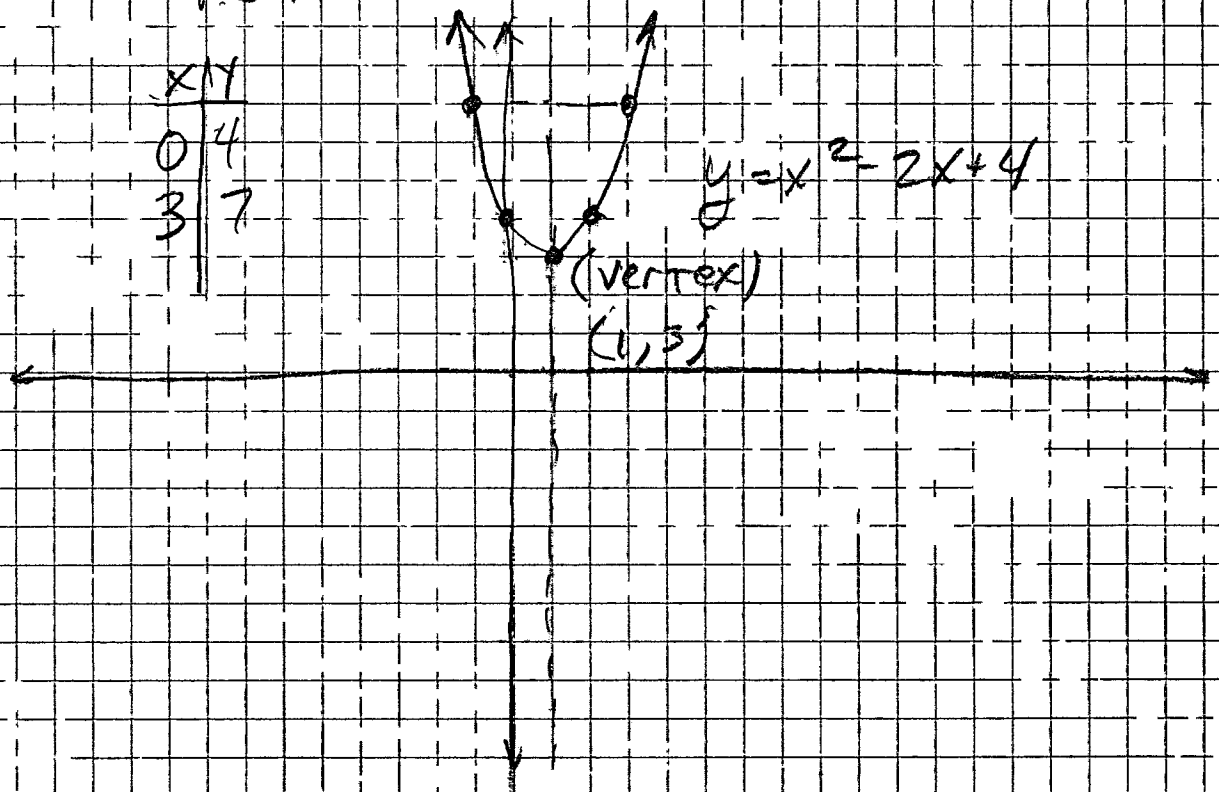
$a = 1$

$AOS = x = \frac{-b}{2a} = \frac{2}{2} = 1$

$b = -2 \quad c = 4$

$f(1) = 3$

x	y
0	4
3	7



(30) $y = -\frac{1}{2}x^2 - 4x - 6$

$a = -\frac{1}{2}$ $\quad b = -4$ $\quad c = -6$

$AOS = \frac{-b}{2a} = \frac{4}{-1} = -4 = x$

$f(-4) = -\frac{1}{2}(-4)^2 - 4(-4) - 6$

$= -8 + 16 - 6 = 2$

x	y
-4	2
0	-6
-2	0