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Date _____
Algebra II

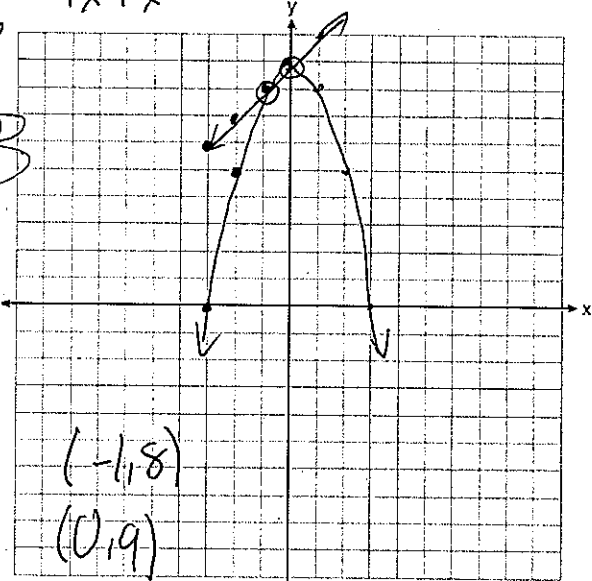
Quadratic Systems of Equations Graphically

Solve the following systems of equations graphically

1. $y = -x^2 + 9$

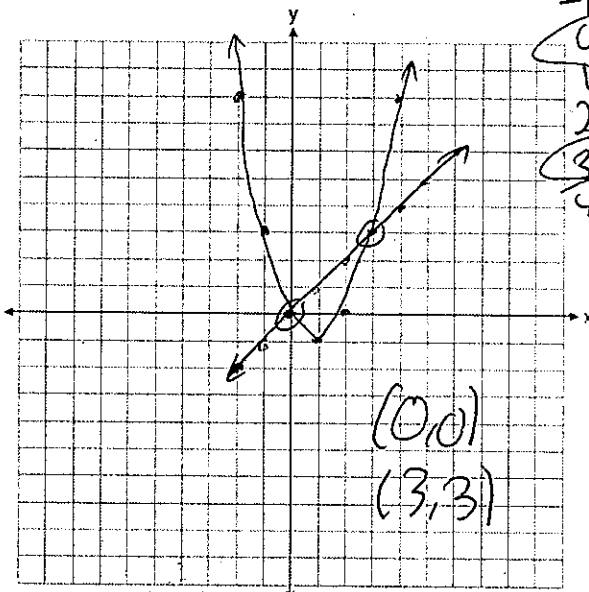
x	y	x	y
-3	0	-3	6
-2	5	-2	7
-1	8	-1	8
0	9	0	9
1	8	1	8
2	5	2	7
3	0	3	6

$y - x = 9$
 $+x +x$ $y = x + 9$



2. $y = x^2 - 2x$
 $y = x$

x	y	x	y
-2	8	-2	-1
-1	3	-1	-1
0	0	0	0
1	-1	1	1
2	0	2	2
3	3	3	3
4	8	4	4

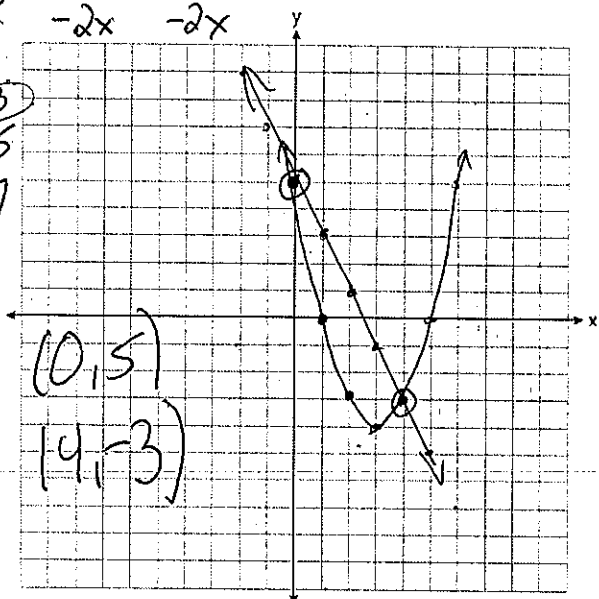


x	y	x	y
0	5	0	3
1	0	1	3
2	-3	2	1
3	-4	3	-1
4	-3	4	-3
5	0	5	-5
6	5	6	-7

3. $y = x^2 - 6x + 5$

$y = x^2 - 6x + 5$
 $y = -2x + 5$

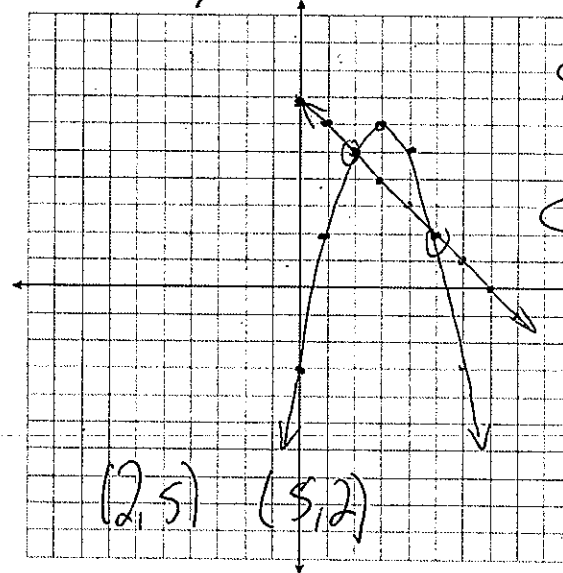
$2x + y = 5$
 $-2x -2x$



4. $y = -x^2 + 6x - 3$

$x + y = 7$
 $-x -x$ $y = -x + 7$

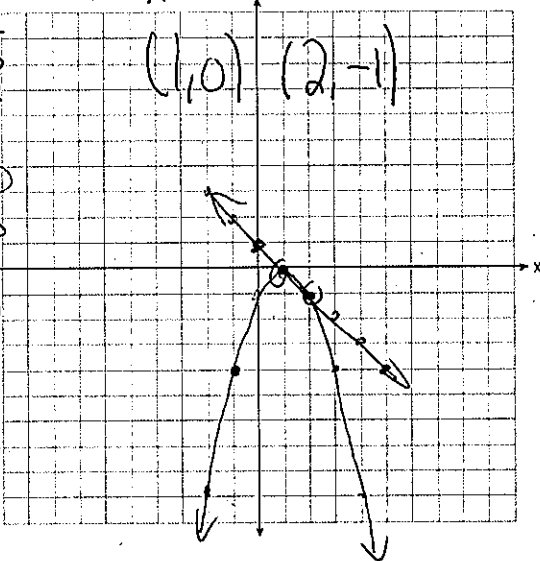
x	y	x	y
0	-3	0	7
1	2	1	6
2	5	2	5
3	6	3	4
4	5	4	3
5	2	5	2
6	-3	6	1



5. $y = -x^2 + 2x - 1$

$y + x = 1$
 $-x - x$ $y = -x + 1$

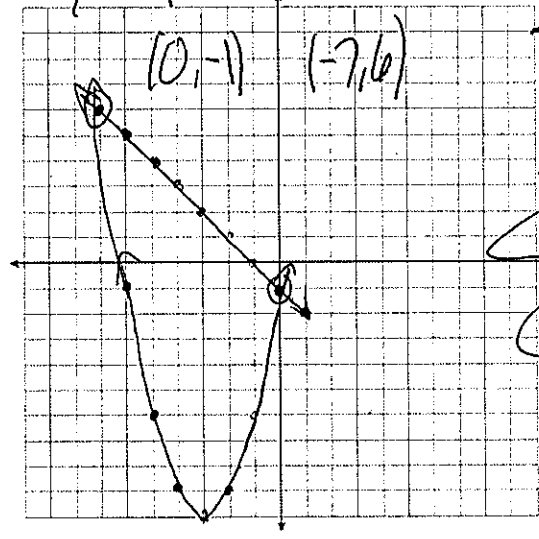
x	y	x	y
-2	3	-2	3
-1	2	-1	2
0	1	0	1
1	0	1	0
2	-1	2	-1
3	-4	3	-4
4	-9	4	-9



6. $y = x^2 + 6x - 1$

$y + x = -x$
 $-x - x$ $y = -x - 1$

x	y	x	y
-6	5	-6	5
-5	4	-5	4
-4	3	-4	3
-3	2	-3	2
-2	1	-2	1
-1	0	-1	0
0	-1	0	-1
1	-6	1	-6

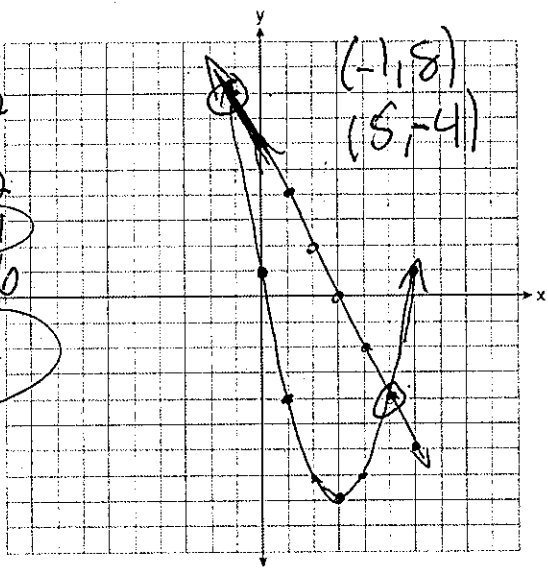


added this point because it's the intersection point.

7. $y = x^2 - 6x + 1$

$y + 2x = 6$

x	y	x	y
0	1	0	1
1	-4	1	-4
2	-7	2	-7
3	-8	3	-8
4	-7	4	-7
5	-4	5	-4
6	1	6	1
7	8	7	8



8. $y = -x^2 - 4x + 12$

$y = -2x + 4$

x	y	x	y
-5	11	-5	11
-4	8	-4	8
-3	5	-3	5
-2	2	-2	2
-1	-1	-1	-1
0	-4	0	-4
1	-7	1	-7
2	-10	2	-10

