

Name \_\_\_\_\_

Date \_\_\_\_\_

### Solving Simultaneous Equations (Linear and Quadratics) - Guided Lesson Explanation

#### Explanation#1

$$x^2 + 3x - 4 = x + 4$$

$$x^2 + 2x - 8 = 0$$

$$x = 2 \quad x = -4$$

$$y - 2 = 4$$

$$y = 6$$

$$y - (-4) = 4$$

$$y = 0$$

So the answer is (2,6) (-4,0)

#### Explanation#2

##### Step 1: Points for: $y = x + 4$

x	y
0	4
4	8
-4	0
8	12

x	y
-8	-4
12	16
-12	-8

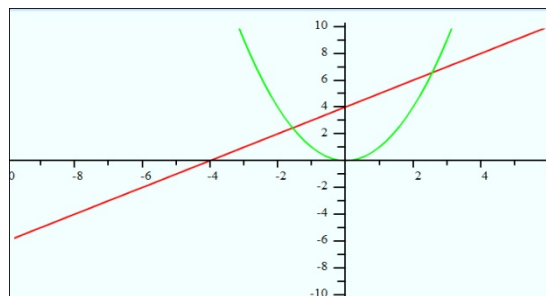
##### Points for: $y = x^2$

x	y
0	0
1	1
2	4
4	16

x	y
-3	9
5	25
6	36

(-1.5616, 2.4385),

(2.5616, 6.5617)



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**Explanation#3**

We should know what we have calculated.

**Step 1: Points for:  $y = x + 6$** 

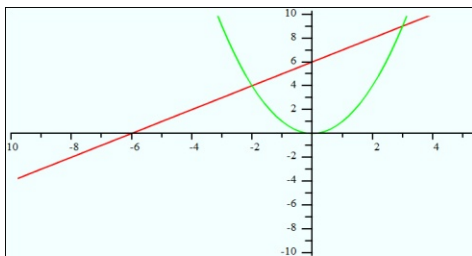
x	y
0	6
6	12
-6	0
12	18

x	y
-12	-6
18	24
-18	-12

**Points for:  $y = x^2$** 

x	y
0	0
2	4
6	36
3	9

x	y
-4	16
7	49
8	64

 $(-2, 4), (3, 9)$ 