

Chapter 12.2 Homework

Put each quadratic equation in Standard Form:

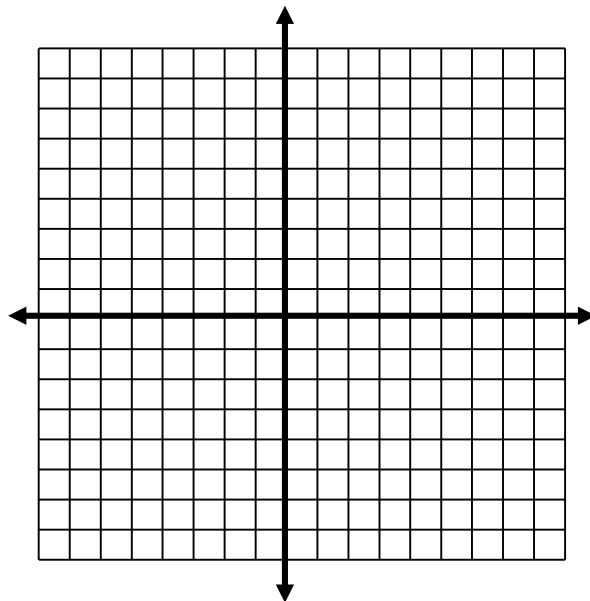
1. $f(x) = x(x-4) + 7$	2. $g(x) = 2x + x^2 - 7$	3. $h(n) = 4 + (6n+1)n$
4. $d(k) = 6x^2 - 4(x-1)$	5. $p(v) = v(6-v)$	6. $t(x) = -2(x-4) + x^2$

7.) Complete the table and graph.

$$f(x) = x^2 + 4$$

Observation:

x	$f(x)$
-3	
-2	
-1	
0	
1	
2	
3	



Calculate the first and second differences for each table of values. Describe the type of function represented by the table.

7.

x	y	First Differences	Second Differences
-2	-6	3	
-1	-3	3	0
0	0	3	0
1	3	3	0
2	6		

The function represented by the table is a linear function.

8.

x	y	First Differences	Second Differences
-2	12		
-1	3		
0	0		
1	3		
2	12		

9.

x	y	First Differences	Second Differences
-3	3		
-2	4		
-1	5		
0	6		
1	7		

10.

x	y	First Differences	Second Differences
-1	1		
0	0		
1	3		
2	10		
3	21		

11.

x	y	First Differences	Second Differences
-4	-48		
-3	-27		
-2	-12		
-1	-3		
0	0		

12.

x	y	First Differences	Second Differences
-1	10		
0	8		
1	6		
2	4		
3	2		