Name	
Date:	
Hour:	
	Algebra I HW 1.2
1.) Find the first and second d	lifferences for the sequence for 20, 27, 36, 47, 60.
Find the next two terms of each	ch sequence.
2.) 18, 32, 46, 60, 74,	<i>,</i>
3.) 33, 49, 65, 81, 97,	<i>J</i>
4.) 20, 21, 26, 35, 48,	<i>y</i>
5.) 30, 31, 35, 42, 52,	<i>J</i>
6.) 100, 94, 88, 82, 76,	
7.) 44, 41, 38, 35, 32,	<i>y</i>
8.) 12, 12, 18, 31, 53, 87,	
9.) 1, 7, 23, 50, 89,	

Appy the method of finding differences **until you get a constant**. Which difference produces a constant? What is it?

11.)
$$1^2$$
, 2^2 , 3^2 , 4^2 , 5^2

12.)
$$1^3$$
, 2^3 , 3^3 , 4^3 , 5^3

13.) Complete the table for the perimeter of a square with the length of a side given in centimeters.

						,		
Side	1	2	3	4	5	6	7	8
Perimeter	4	8	12	16				

14.) If 675 people came to see a play and the admission was \$1.60, how much money was taken in?

15.) There are 162 students who volunteered to help 3 organizations. How many students went to each of the organizations if each got the same number?

16.) Find the next three terms in the following pattern.

43, 49, 55, 61, 67, _____, ____. Is the difference a constant? Yes or No?