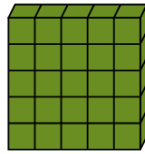
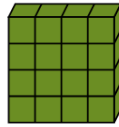
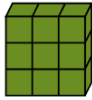


Recognize quadratic relations from tables

1

4, 9, 16, 25



A Quadratic

B Decreasing (Arithmetic)

2

1, 1, 2, 3, 5, 8

A Repeating

B Fibonacci

3

Is the function linear, quadratic, or neither?

x	y	1st Diff	2nd Diff
0	-3		
1	-6	-3	0
2	-9	-3	0
3	-12	-3	-2
4	-17	-5	

A Quadratic

B Linear

C Neither

4

Complete the first and second differences. Is the function linear, quadratic, or neither?

x	y	1st Diff	2nd Diff
-2	-5		
-1	-9		
0	-16		
1	-26		
2	-39		

A Quadratic

B Neither

C Linear

5

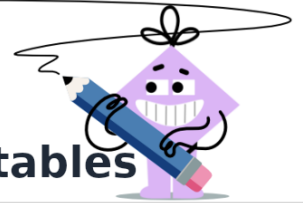
Which completed table shows a quadratic function?

A

x	y	1st Diff	2nd Diff
3	-3		
4	0	3	0
5	3	3	0
6	6	3	0
7	9	3	

B

x	y	1st Diff	2nd Diff
1	-2		
2	1	3	-2
3	2	1	-2
4	1	-1	-2
5	-2	-3	



Recognize quadratic relations from tables

6

Is the function linear, quadratic, or neither?

x	y	1st Diff	2nd Diff
2	-3	1	
3	-2	1	0
4	-1	1	0
5	0	1	0
6	1	1	

A Neither

B Quadratic

C Linear

7

Complete the first and second differences. Is the function linear, quadratic, or neither?

x	y	1st Diff	2nd Diff
-2	-2		
-1	-5		
0	-8		
1	-11		
2	-14		

A Linear

B Quadratic

C Neither

8

Which completed table shows a quadratic function?

A

x	y	1st Diff	2nd Diff
-1	-8		
0	-6	2	
1	-1	5	3
2	3	4	-1
3	10	7	3

B

x	y	1st Diff	2nd Diff
-2	-2		
-1	-6	-4	
0	-13	-7	-3
1	-23	-10	-3
2	-36	-13	-3

9

Is the function linear, quadratic, or neither?

x	y	1st Diff	2nd Diff
0	9		
1	14	5	-1
2	18	4	-1
3	21	3	-1
4	23	2	

A Quadratic

B Neither

C Linear

10

Complete the first and second differences. Is the function linear, quadratic, or neither?

x	y	1st Diff	2nd Diff
2	-4		
3	-2		
4	3		
5	11		
6	22		

A Linear

B Quadratic

C Neither