

11.5 Writing Formulas from Tables

Directions: For each table below identify the common Difference/Ratio. Then write the Recursive and Explicit Formula, for each table.

1)

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

Common Difference/Ratio:

Recursive Formula:

Explicit Formula:

2)

x	y
1	2
2	7
3	12
4	17
5	22

Common Difference/Ratio:

Recursive Formula:

Explicit Formula:

3)

x	1	2	3	4	5
y	1	3	9	27	81

Common Difference/Ratio:

Recursive Formula:

Explicit Formula:

4)

x	1	2	3	4
y	2	-8	32	-128

Common Difference/Ratio:

Recursive Formula:

Explicit Formula:

5)

x	y
1	-3
2	6
3	15
4	24

Common Difference/Ratio:

Recursive Formula:

Explicit Formula:

6)

x	y
1	-72
2	-36
3	-18
4	-9

Common Difference/Ratio:

Recursive Formula:

Explicit Formula:

7)

x	y
1	4
2	16
3	64
4	256

Common Difference/Ratio:**Recursive Formula:****Explicit Formula:**

8)

x	y
1	29
2	23
3	17
4	11

Common Difference/Ratio:**Recursive Formula:****Explicit Formula:**

9)

x	y
1	8
2	4
3	2
4	1

Common Difference/Ratio:**Recursive Formula:****Explicit Formula:**

10)

x	y
1	0
2	5
3	10
4	15

Common Difference/Ratio:**Recursive Formula:****Explicit Formula:**

11)

x	1	2	3	4
y	21	7	-7	-21

Common Difference/Ratio:**Recursive Formula:****Explicit Formula:**

12)

x	1	2	3	4
y	160	-80	40	-20

Common Difference/Ratio:**Recursive Formula:****Explicit Formula:**