Step 1: Rewrite as a sequence

Think of the y-coordinates of the Table as the numbers for your sequence, starting with the y-coordinate for when x is 1 and so on, then rewrite the numbers as a sequence of numbers.

Step two:

Follow steps learned in past lessons to write formulas.

1)

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

Rewrite: 2, 7, 12, 17, 22

Common Difference/Ratio:

D = 7

Recursive Formula:

$$a_1 = 2$$
$$a_{n+1} = a_n + 7$$

Explicit Formula:
$$a_n = -5 + 7n$$

	Explicit	Recursive
Arithmetic	$a_n = a_0 + dn$ $a_n = any\ term$ $a_0 = term\ zero$ $d = common\ difference$	$a_1 =$ $a_{n+1} = a_n + d$
Geometric	$g_n = g_0 \cdot (r)^n$ $r = common\ ratio$	$g_1 =$ $g_{n+1} = g_n \cdot r$