

Non-Consecutive Terms

Arithmetic

n	1	2	3	4	5	6	7
f(n)	-3	-2	-1	0	1	2	3

Common Difference (d):

$$d = \frac{3 - (-3)}{7 - 1} = \frac{6}{6} = 1$$

General Rule:

n	1	2	3	...	n
f(n)	f(1)	f(2)	f(3)	...	f(n)

$$d = \frac{f(n) - f(1)}{n - 1} \quad \leftarrow \begin{array}{l} \text{Right - Left + Bottom} \\ \text{Right - Left Top} \end{array}$$

1)

n	1	2	3	4	5
f(n)	6	8	10	12	14

$$d = \frac{14 - 6}{5 - 1} = \frac{8}{4} = 2$$