

(1)

What type of sequence would make the second term 48?

(2)

What type of sequence would make the mean of the first four terms equal their median?

(3)

What type of sequence would make the second and fourth terms sum to 180?

(7)

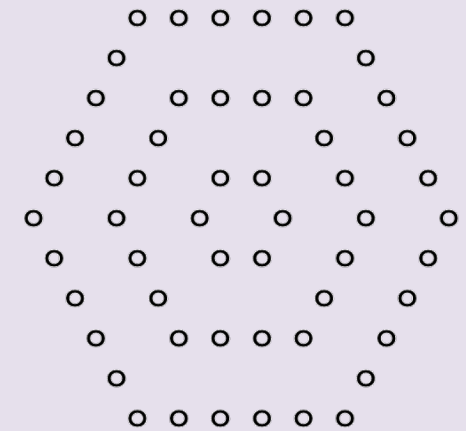
For each of the sequences in **(2)** to **(5)**, find the n^{th} term.

Sequences

, , , , ...

(4)

What type of sequence would make the third term look like this?



(6)

For each of the sequences in **(1)** to **(5)**, find the 8th term.

(5)

What type of sequence would make the fourth term 81?

(1)

What type of sequence would make the second term 48?

Fibonacci-style (6, 48, 54, 102,...)

(2)

What type of sequence would make the mean of the first four terms equal their median?

Arithmetic (6, 30, 54, 78,...)

(3)

What type of sequence would make the second and fourth terms sum to 180?

Geometric (6, 18, 54, 162,...)

(7)

For each of the sequences in **(2)** to **(5)**, find the n^{th} term.

(2): $24n - 18$, **(3):** 2×3^n
(4): $6n^2$, **(5):** $n^2 + 20n - 15$

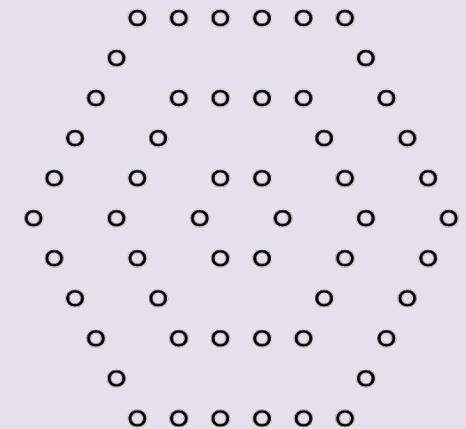
Sequences

, , , , ...

Answers!

(4)

What type of sequence would make the third term look like this?



Quadratic (6, 24, 54, 96,...)

(6)

For each of the sequences in **(1)** to **(5)**, find the 8th term.

(1): 672, **(2):** 174, **(3):** 13122
(4): 384, **(5):** 209

(5)

What type of sequence would make the fourth term 81?

Quadratic (6, 29, 54, 81,...)