



Cubic Sequences

Worksheet 1

Try answering each of the following without a calculator.
Show all of your working and state any formula used.

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Exercise 1

Find the formula for the n^{th} term of the sequence whose first few terms are:

$$4, 14, 40, 88, 164, \dots$$

Exercise 2

Find the formula for the n^{th} term of the sequence whose first few terms are:

$$4, 23, 66, 145, 272, \dots$$



Exercise 3

Find the formula for the n^{th} term of the sequence whose first few terms are:

$$-1, 1, -5, -25, -65, \dots$$

Exercise 4

Find the formula for the n^{th} term of the sequence whose first few terms are:

$$1, 14, 65, 178, 377, \dots$$

Exercise 5

Find the formula for the n^{th} term of the sequence whose first few terms are:

$$11, 6, -25, -100, -237, \dots$$