



Cubic Sequences

Worksheet 1

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

Click on the link in the Header of this page, or scan the QR Code to view the online notes and tutorial(s) for this worksheet.

Exercise 1

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

4, 14, 40, 88, 164, ...

Exercise 2

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

4, 23, 66, 145, 272, ...



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:

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