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:

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

Exercise 2

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

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

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Exercise 3

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

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

Exercise 4

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

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

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Exercise 5

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

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

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