

3rd December

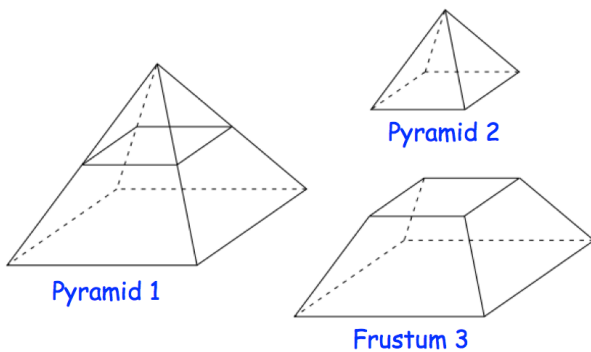
Corbettmaths

Expand and simplify

$$(3x - 1)^2(x + 2)$$

Here are the first 5 terms of a quadratic sequence

9 17 29 45 65

Find an expression, in terms of n , for the n th term of this quadratic sequence.

Pyramid 1 has a base of side length 8cm. Pyramid 2 has a base of side length 4cm. The perpendicular height of pyramid 1 is 10cm.

Calculate the volume of frustum 3.

A square based pyramid 1 is divided into two parts: a square based pyramid 2 and a frustum 3, as shown.

Prove that the difference between the squares of any two consecutive integers is equal to the sum of the two integers.