

Quadratic Sequences

Solve the clues to find the four-digit code to escape the classroom!

a. List the first three terms of the sequence $n^2 + 2$

b. Calculate the 5th term of the sequence $18 - 2n^2$

c. Find the n^{th} term of the sequence -1, 5, 15, 29, 47...

d. Find the n^{th} term of the sequence 7, 9, 12, 16, 21...

The code is the second term in question a, the second digit in the answer to question b, the coefficient of n^2 in question c and the coefficient of n^0 in question d.



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Answers

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a. List the first three terms of the sequence $n^2 + 2$

3, 6, 11

b. Calculate the 5th term of the sequence $18 - 2n^2$

$18 - 2 \times 5^2 = -32$

c. Find the n^{th} term of the sequence -1, 5, 15, 29, 47...

$2n^2 - 3$

d. Find the n^{th} term of the sequence 7, 9, 12, 16, 21...

$\frac{1}{2}n^2 + \frac{1}{2}n + 6$

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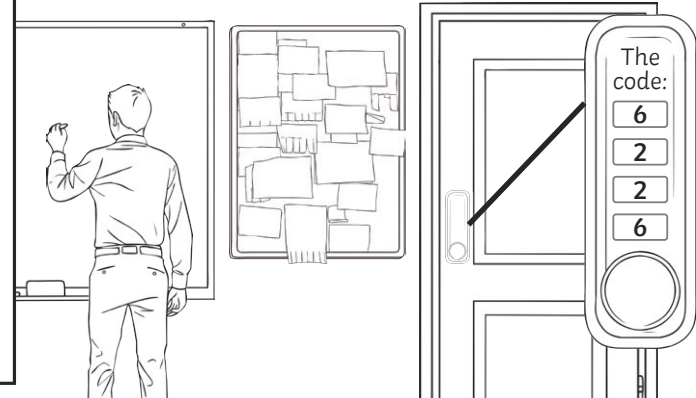
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