From Pattern Drawings to Equations: A Visual Algebra Worksheet

Original tasks 1, 2 / independent work

Task 1

A dot pattern shows term 1 with 3 dots, term 2 with 6 dots, and term 3 with 9 dots. Write the equation and predict the 8th term.

Task 2

A dot pattern shows term 1 with 7 dots, term 2 with 10 dots, and term 3 with 13 dots. Write the equation and predict the 12th term.

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Original tasks 3, 4 / independent work

Task 3

A dot pattern shows term 1 with 2 dots, term 2 with 5 dots, and term 3 with 8 dots. Write the equation and predict the 15th term.

Task 4

A dot pattern shows term 1 with 6 dots, term 2 with 11 dots, and term 3 with 16 dots. Write the equation and predict the 9th term.