

# Algebra/Data Analysis Toolkit: Indicator 1.1.2

Student Handout: Algebra/Data Analysis: Indicator 1.1.2

## Goal 1.0 Functions and Algebra

Expectation 1.1 The student will analyze a wide variety of patterns and functional relationships using the language of mathematics and appropriate technology.

Indicator 1.1.2 The student will represent patterns and/or functional relationships in a table, as a graph, and/or by mathematical expression.

Assessment Limits:

The given pattern must represent a relationship of the form  $mx + b$  (linear),  $x^2$  (simple quadratic), simple arithmetic progression, or simple geometric progression with all exponents being positive.

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Look at the table below.

$x$	1	2	3	4
$y$	3	8	13	18

Which of these equations describes the relationship between the  $x$ -values and the  $y$ -values?

- A.  $y = 2x - 5$
- B.  $y = x + 2$
- C.  $y = x + 5$
- D.  $y = 5x - 2$

Correct Answer

- D.  $y = 5x - 2$

## Item

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