

A.5 The student will create and use tabular, symbolic, graphical, verbal, and physical representations to analyze a given set of data for the existence of a pattern, determine the domain and range of relations, and identify the relations that are functions.

1. The table gives a relationship between x and y . Which equation defines the relationship between x and y ?

x	-2	-1	0	1	2
y	4	1	0	1	4

- a. $y = x + 6$ b. $y = x + 2$ c. $y = x^2$ d. $y = 2x$ e. $y = -x^2$
2. Which equation describes the pattern of the function?
{(-2, 4), (0, 1), (4, -5), (8, -11)}
- f. $y = -\frac{3}{2}x + 1$ g. $y = \frac{3}{2}x + 1$ h. $3x - 2y = 1$ j. $y = -\frac{3}{2} - 1$
3. Which equation describes the pattern of the function?
{(-2, -3), (0, 1), (1, -1), (4, -7), (6, -11)}
- a. $2x + y = 1$ b. $y = -2|x| + 1$ c. $y = -|x| + 1$ d. $y = -2x + 1$