

**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  $y$ ?

<b>x</b>	-2	-1	0	1	2
<b>y</b>	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.  $y = -2x + 1$