18.0 Students determine whether a relation defined by a graph, a set of ordered pairs, or a symbolic expression is a function and justify the conclusion.

Key Vocabulary

Relation **Function** **Set** **Ordered Pair** **Vertical Line Test**

Instructional Objectives

1	Graph a relation defined by a set of ordered pairs and determine if the set defines a function.	1 Graph the relation shown. {(-4, 2), (-2, 1), (0, 0), (2, 1), (4, 2)} Is the relation a function?
		2 Graph the relation shown. {(8, 8), (6, 6), (4, 1), (6, -4), (8, -6)} Is the relation a function?
		3 Graph the relation shown. {(-5, 5), (-4, -4), (-3, -3), (-2, -2), (-1, -1)} Is the relation a function?
		4 Graph the relation shown. {(0, 2), (0, 3), (0, 4), (0, 5), (0, 6)} Is the relation a function?