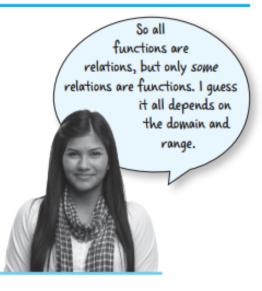
PROBLEM 3 Function Junction

A **relation** is the mapping between a set of input values called the **domain** and a set of output values called the **range**. A **function** is a relation between a given set of elements, such that for each element in the domain there exists exactly one element in the range.

The **Vertical Line Test** is a visual method used to determine whether a relation represented as a graph is a function. To apply the Vertical Line Test, consider all of the vertical lines that could be drawn on the graph of a relation. If any of the vertical lines intersect the graph of the relation at more than one point, then the relation is not a function.



A **discrete graph** is a graph of isolated points. A **continuous graph** is a graph of points that are connected by a line or smooth curve on the graph. Continuous graphs have no breaks.

The Vertical Line Test applies for both discrete and continuous graphs.

THIS IS VERY IMPORTANT VOCABULARY!!!!!!!

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 Use the Vertical Line Test to sort the graphs in Problem 1 into two groups: functions and non-functions. Record your results by writing the letter of each graph in the appropriate column in the table shown.

Functions	Non-Functions
A, B, C, D, F, G, H, I, K, L, M, O, P, Q, S, T, U, V	E, J, N, R

Talk the Talk

