GRAPH RECOGNITION LAB—SORTING EXTENSION

Have the students cut out the graph cards. Try two types of sorts: open and closed.

- 1. Open—Students sort the graphs into groups (with a minimum of 3 in each group) that share a common characteristic. Have them state/explain the characteristic.
- 2. Closed—Students sort the graphs into categories given by the teacher. A few examples for categories:

domain: all real numbers, all real numbers except 0, x > 0

continuous versus discontinuous

functions with minimum (or maximum) values

global behavior: as x approaches $\pm \infty$, y approaches 0

as x approaches $\pm \infty$, no limit exists

Sample Sorting mat:

SORT—GRAPH RECOGNITION LAB			
Put 3 or more cards, which share a common characteristic, in each column. State/explain the characteristic for each column.			
Characteristic:	Characteristic:	Characteristic:	



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Put 3 or more cards, which share a common characteristic, in each column.			
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Characteristic:	Characteristic:	Characteristic:	



SORT—GRAPH RECOGNITION LAB Put 3 or more cards, which share a common characteristic, in each column. State/explain the characteristic for each column. 3 1 10 22 5 12 23 21 Characteristic: Characteristic: Characteristic:



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