1) Which set of ordered pairs is not a function?
(1) $\{(0,0),(1,1),(2,2),(3,3)\}$
(2) $\{(1,2),(3,4),(4,5),(5,6)\}$
(3) $\{(4,1),(5,1),(6,1),(7,1)\}$
(4) $\{(3,1),(2,1),(1,2),(3,2)\}$
2) Which relation represents a function?
(1) $\{(0,3),(2,4),(0,6)\}$
(2) $\{(-7,5),(-7,1),(-10,3),(-4,3)\}$
(3) $\{(2,0),(6,2),(6,-2)\}$
(4) $\{(-6,5),(-3,2),(1,2),(6,5)\}$
3) Given the relation. $R=\{(-2,3),(\boldsymbol{a}, 4),(1,9),(0,7)\}$ Which replacement for $\boldsymbol{a}$ makes this relation a function?
(1) 1
(2) -2
(3) 0
(4) 4
4) Which graph represents a function?
(1)

(2)

(3)


5) Using a mathematical model (mapping diagram, table of values, ordered pairs, graph), give an example of a relation that is a function. Give an example of a relation that is not a function. Explain why each of your examples is a function or not a function.

Answers vary.

