## Chapter 7.1, Problem 39E

Problem

Let  $X = \{1, 2, 3, 4\}$  and  $Y = \{a, b, c, d, e\}$ . Define  $g: X \to Y$  as follows: g(1) = a, g(2) = a, g(3) = a, and g(4) = d.

a. Draw an arrow diagram for g.

b. Let  $A = \{2, 3\}, C = \{a\}$ , and  $D = \{b, c\}$ . Find g(A), g(X), g-1(C), g-1(D), and g-1(Y).



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