## Answer on Question #75634 – Math – Discrete Mathematics

## Question

Let f be the function from {a, b, c, d} to {1, 2, 3} defined by f(a) = 3, f(b) = 2, f(c) = 1, and f(d) = 3. Is f an onto function?

## Solution

Note that f is an onto function because for each element in the codomain  $Y=\{1, 2, 3\}$  there exists at least one element in the domain  $X=\{a, b, c, d\}$  such that f(x)=y.

Answer: f is an onto function.