## 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.

