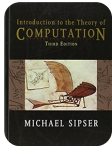


Exercício 6

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Introduction to the Theory of Computation

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n	$f(n)$
1	6
2	7
3	6
4	7
5	6

n	$g(n)$
1	10
2	9
3	8
4	7
5	6

Part a.

No, f is not one-to-one, since $1 \neq 3$ but $f(1) = f(3) = 6$.

Part b.

Nope, f is not onto either, since there is no $x \in X$ such that $f(x) = 8$.

Part c.

Obviously **not**, since function is a correspondence if it is one-to-one and onto, but f is neither.

Part d.

Yes, since the values of function g are all distinct.

Part e.

Yup, it sure is, since every element from Y is on the right side of table.

Part f.

Aha, it is, since it is both one-to-one and onto.

Resultado

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Read *Definition 4.12*.

< Exercício 5

Avaliar esta solução



Exercício 7 >

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