

Computability Assignment

Year 2012/13 - Number 1

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More information about assignments at <http://disi.unitn.it/~zunino/teaching/computability/assignments>

1 Question

Define a binary property $p(x, y)$ over natural numbers such that we have both

1. $\forall x \in \mathbb{N}. \exists y \in \mathbb{N}. p(x, y)$
2. $\neg \exists y \in \mathbb{N}. \forall x \in \mathbb{N}. p(x, y)$

Provide a definition for p , and a proof for the above claims.

1.1 Answer

This is a test submission.

This is a test submission.

This is a test note. — RZ

This is a test submission.

Random formula:

$$f(n) = \# \left(\lambda x. \begin{cases} 1 + x & \text{if } x \text{ is even} \\ 3 \cdot x + 1 & \text{otherwise} \end{cases} \right)$$

This is a test submission.

This is a test submission.

This is another test note. Blah $f(x) = 5$ blah.— RZ

This is a test submission.