Read each problem very carefully before starting to solve it. Each problem is worth around 5 points. It is necessary to show all your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. [3 points] Consider the relation defined by the following table:

$$
\begin{array}{c|cccc}
x & 2 & 5 & 7 & 13 \\
\hline y & 3 & 6 & 5 & 6
\end{array}
$$

(a) Is the relation a function? Explain.
(b) If it is a function, is it one-to-one? Explain.
2. [5 points] Consider the function $f(x)=x^{2}-3 x$.
(a) Evaluate $f(a+h)$ and simplify.
(b) Solve $f(x)=4$, i.e., find for which input values the output equals 4 .

