QUIZ 1 - MATH 111 YOUR NAME:

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:

(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 $f(x) = x^2 3x$.
 - (a) Evaluate f(a+h) and simplify.

(b) Solve f(x) = 4, i.e., find for which input values the output equals 4.