## QUIZ 1 - MATH 111 YOUR NAME:\_\_\_\_

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

- 1. The income tax T owed in a certain state is a function of the taxable income I, both measured in dollars. The formula is T = 0.11I 500.
  - (a) Express using functional notation the tax owed on a taxable income of \$ 13,000 and then calculate its value.

(b) If your taxable income increases from \$13,000 to \$14,000, by how much does your state tax increase?