## QUIZ 4 - MATH 102 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. Solve the following system using the **addition method**:

$$\left\{\begin{array}{rrrr} 2x - 5y &=& -21\\ -3x + 7y &=& 29 \end{array}\right\}.$$

- 2. Your dad and uncles are setting up a living room game of cards. They are going to wager small coins. After emptying their pockets, they find that they have a total of 65 nickels and dimes, whose total value is \$4.45. Our goal is to find how many nickels and how many dimes they had.
  - (a) Introduce variables and state their exact meaning.
  - (b) Set up a system of two equations in two variables reflecting the data in the statement of the problem.

(c) Solve the system in Part (b) to find out how many nickels and how many dimes they had available to play their game.