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. Graph the solution set of the **compound** inequality in two variables (**describing all your steps**):

y + x < 1 and y - x < -1.

- 2. Sophie invested a total of \$1,500 in bonds with annual 1% yield and in stocks with annual return of 10%. Suppose her total earnings at year's end were \$60.
 - (a) Introduce variables, state what they mean and write down equation(s) reflecting the data in the statement.
 - (b) Solve the system you wrote in Part (a) to find how much was invested in bonds. (You get **0 points for guessing**.)