QUIZ 4 - MATH 102	Friday, October 2
YOUR NAME:	George Voutsadakis

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 compound inequality in two variables

$$1 - x < y \quad \text{and} \quad x > y + 5.$$

Your graph should be large and clear and all points must be labeled.

2.	George, your teacher, is giving you the following puzzle: He is thinking of two numbers.
	• The sum of the first number plus twice the second number is 50.
	• Subtracting twice the first number from the second gives a difference of 10.
	George is asking you to find the two "mystery" numbers by following closely the steps below:
	(a) Introduce variables and clearly explain what they stand for.
	(b) Write two equations that reflect the two itemized statements above.
	(c) Solve the equations using the addition method to find the "mystery" numbers.