QUIZ 2 - 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 linear equation

$$\frac{2}{3} - (2x - 3) + \frac{1}{6} = \frac{1}{2} + \frac{1}{3}(5 - x).$$

Please, carry out all steps carefully!

2. Solve the linear inequality and express the solution set in interval notation:

$$2 - \frac{3}{2}x \ge \frac{5 - 7x}{4}.$$

- 3. In 4 years George will be twenty years older than Leah was when they first met 5 years ago. If their ages now total 81 years, how old is George now?
 - (a) Set variable(s) and **clearly** state their meaning.
 - (b) Write equation(s) reflecting the data in the statement.
 - (c) Solve the equation(s) to find George's current age.