

NAME: \_\_\_\_\_ Score \_\_\_\_\_/10

Please **print** your name**Consider the following problem.**

1. A linear equation in one variable is an equation which may be written in the form \_\_\_\_\_ where a and b are real numbers.
2. A quadratic equation in one variable is an equation which may be written in the form \_\_\_\_\_ where a, b, and c are real numbers and \_\_\_\_\_.
3. The graph of an equation is the set of points, and only those points, whose coordinates are \_\_\_\_\_ of the equation.
4. A number is a solution of an equation in one variable if and only if it makes the equation \_\_\_\_\_ when substituted for the variable.
5. Explain why  $x^2 + 5x + 2$  is not a quadratic equation in one variable.
6. State the quadratic formula.
7. State the Zero Factor Property