

NAME: _____ Score _____/10

Please **print** your name**SHOW ALL YOUR WORK IN A NEAT AND ORGANIZED FASHION**

1. **T** **F** If two equations have the same solution set, the equations are equivalent.
2. **T** **F** An equation might be both an identity and a conditional equation.
3. **T** **F** If 7 is a solution of Equation A and 7 is a solution of Equation B, then equations A and B are said to be equivalent equations.
4. If a true statement results when 5 is substituted for the variable in an equation, then 5 is a **solution** of the equation.
5. The collection of all solutions of an inequality is called the **solution set** of the inequality.
6. If x and y represent real numbers and it is known that both $x = y$ and $x > y$ are false, then **$x < y$** must be true.
7. A number that makes an inequality **true** when substituted for the variable is called a solution of the inequality.
8. If 3 is not a solution of $x^5 + x^4 + x^2 + x + 1 = 6$ and 3 is not a solution of $x^5 + x^4 + x^2 + x + 1 < 6$, then 3 is a solution of **$x^5 + x^4 + x^2 + x + 1 > 6$** .
9. The **graph** of an inequality consists of all the points, and only those points, whose coordinates satisfy the inequality.
10. The **graph** of an equation consists of all the points, and only those points, which satisfy the equation.