

NAME: _____ Score _____/10

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

1. (1 pt.) Two equations are _____ if they have the same solution sets.
2. (1 pt.) An equation is a mathematical statement which contains an _____ symbol.
3. (1 pt.) If an expression is added to both sides of an equation the resulting equation is _____ to the original equation.
4. (1 pt.) T F $3x^2 - 5x + 9$ is an equation..
5. (1 pt.) T F $3x + 5 = 0$ is a linear equation in one variable.
6. (1 pt.) T F Division of zero by 7 is undefined
7. (1 pts.) Show that -1 is not a solution of $x^5 + x^4 - x^3 = -1$
8. (1 pts.) What is the relation between the equation $3x + 5 = 7$ and the equation $5x + 6 = 2x + 8$ obtained by adding $2x + 1$ to both sides of the original equation.
9. (1 pts.) A linear equation in one variable may have how many solutions? Discuss all possibilities.
10. (1 pts.) If a and b are real numbers and $a < b$, then a is to the _____ of b on the number line.