

NAME: _____ Score _____/10

1. **T** **F** Every non-zero complex number has a multiplicative inverse.
2. **T** **F** $|3x - 7| < 4$ is equivalent to $-4 < |3x - 7| < 4$.
1. **T** **F** If both sides of an equation are multiplied by the same expression, the resulting equation is equivalent to the original equation.
3. **T** **F** When both sides of an equation are squared the solution set of the resulting equation contains the solution set of the original equation.
4. **T** **F** The conjugate of a Complex Number is a Real Number
5. Two equations are **equivalent** if they have the same solution sets.
6. A **binary** operation is a calculation involving two operands.
7. If $\frac{p}{q}$ is a rational zero of a polynomial function with integer coefficients, then the numerator p must be a divisor of the **constant term** and the denominator q must be a divisor of the **leading coefficient**.
8. The graph of a function is the set of all points of the form $(k, f(k))$ where k is an element of the domain and f(k) is the corresponding range element.
9. A **polynomial** is a term or a sum of terms in which all variables have whole number exponents.
10. The inverse of \exp_3 is **\log_3**