

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

Please **print** your name

1. T **F** If  $-5$  is a zero of a polynomial function, then  $x - 5$  is a factor of the polynomial.
2. T **F** Every fourth degree polynomial has at least one x-intercept.
3. **T** F The sum of two like terms is a term.
4. T **F** Consider the function whose rule is  $f(x) = (x - 7)(x + 4)^3$ . Then 4 is a zero with multiplicity 3.
5. If the discriminant of a quadratic function is negative and the leading coefficient is positive, then the parabola lies completely **completely** the x-axis.
6. If a term contains a variable, then its opposite is formed by replacing its coefficient with the **opposite** of the coefficient.
7. The leading term of a polynomial is the term with **largest** degree.
8. Two polynomials are **equal** if they have the same degree and corresponding coefficients are equal.
9. A polynomial consisting of three terms is called a **trinomial**.
10. 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.