

NAME: _____ Score _____/10

Please **print** your name

1. **T** F Unless otherwise stated, the domain of a function is the largest set of real numbers for which the rule makes sense (has meaning).
2. **T** F The graph of a function f consists of all those points and only those points (a, b) for which $f(a) = b$.
3. **T** F A zero of a function f is a domain element.
4. **T** F A quadratic function is a function whose rule may be written in the form $f(x) = ax^2 + bx + c$ where a , b , and c are real numbers and a is not zero.
5. **T** **F** If the discriminant of a quadratic function is negative, the function has two complex x -intercepts.
6. The set of **rational numbers** consists of all numbers which can be written as fractions.
7. Two equations are **equivalent** if they have the same solution sets.
8. The slope of the line through two points (x_1, y_1) and (x_2, y_2) is given by the formula $m = \frac{y_1 - y_2}{x_1 - x_2}$
9. The formula for the volume of a sphere with radius r is $V = \frac{4}{3}\pi r^3$
10. The conjugate of the complex number $-3 - 5i$ is **$-3 + 5i$** .