

NAME: _____ Score _____/10

Please **print** your name

1. T **F** If f is a function and $f(3) = 2$, then the point $(2,3)$ is on the graph of f .
2. T **F** If f is a function and $f(3) = 2$, then the point $(3,2)$ is on the graph of f .
3. T **F** The rule for the composition $f \circ g$ is $f \circ g(x) = f(g(x))$.
4. T **F** The rule for the composition $f \circ g$ is $f \circ g(x) = g(f(x))$.
5. T **F** Composition of functions is a commutative operation.
6. A linear function is a function whose rule may be written in the form $f(x) = mx + b$ where m and b are real numbers.
7. The vertex of the graph of a quadratic function is $\left(\frac{-b}{2a}, f\left(\frac{-b}{2a}\right)\right)$.
8. (3 points) State the Law of Trichotomy

If a and b are real numbers then exactly one of the following must be true:

- i. $a < b$
- ii. $a = b$
- iii. $a > b$