

NAME: _____ Score _____/10

Please **print** your name

1. **T** **F** The interval $(3, 4]$ contains the number 4.
2. **T** **F** $(4, 3)$ is acceptable interval notation.
3. **T** **F** Every equation is a conditional equation.
4. **T** **F** Every real number is a rational number.
5. **T** **F** Every irrational number is a real number.
6. If a , b , and c are real numbers such that $a = b$ and $b = c$, then **$a = c$** .
7. If a and b are real numbers and $ab = 0$, then **$a = 0$** or **$b = 0$** .
8. The **graph** of an equation consists of all the points, and only those points, whose coordinates are solutions of the equation.
9. Two equations are **equivalent** if they have the same solution sets.
10. Calculate the distance between $(3, 6)$ and $(2, 5)$. Remember: If you are going to use a formula, state it first.

Use the formula for the distance between two points $d = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$ to obtain

$$d = \sqrt{(3 - 2)^2 + (6 - 5)^2} = \sqrt{(1)^2 + (1)^2} = \sqrt{2}$$