MAT 099 Basic Skill-Set Quiz

10 Points Name_____

Finish each of the following statements. Do your work on Separate Paper. Check your work. Repeat.

1. $(a-b)^2 =$

2. $(a+b)^2 =$

3. $(a-b)(a+b) =$

4. $a^b a^c =$

5. $(ab)^c =$

6. $a^{-c} =$

7. $\dfrac{1}{a^{-c}} =$

8. $(ab)^c =$

9. $\left(\dfrac{a}{b}\right)^c =$

10. $\dfrac{a^b}{a^c} =$

11. $(a^b d^c)^t =$

12. $\left(\dfrac{a^b}{c^d}\right)^e =$

13. $a^0 =$

14. $\sqrt[r]{x^m} =$

15. The discriminant for $ax^2 + bx + c = 0$ is

16. If $ax^2 + bx + c = 0$, then $x =$

17. $x^3 + y^3 =$

18. $x^3 - y^3 =$

19. $a^2 - b^2 =$