Name _____

Homework # _____

Negative and Zero Exponents

1. x^0 = _____ if x is a number such that $x \neq 0$.

Write each expression into an equivalent expression involving a positive exponent.

2. 10^{-4}

3. 2^{-1}

4. m^{-6}

5. $(^2/_3)^{-2}$

6. r^{-3}

Compute each value using the definitions of zero and negative exponents.

7. 10^0

8. $(-4)^0$

9. y^0

10. $(2K)^0$

11. 3^{-2}

12. 2^{-4}

13. $(-6)^{-1}$

14. $(-1)^{-5}$

15. 10^{-1}

16. 10^{-2}

17. 10^{-3}

18. 10^{-4}

19. $4(10)^{-2}$

20. $1.5(10)^{-3}$

21. $7^0 + 6^{-2}$

22. $\left(\frac{1}{2}\right)^0 + 3^{-3}$