

Name: _____ Period: _____ Date: _____

Zero and Negative Exponents Assignment

Evaluate the following

1. 2^0

2. -2^0

3. $-4^{(-2)} \div 2^{(-1)}$

4. $2x^{-1}$

5. $\frac{(2^{-1}3^{-1})}{(2^{-1}-3^{-1})}$

6. $\left(\frac{2}{3}\right)^{-4}$

7. $4a^{(-2)}$

8. $(2x)^0 - 2x^0$

9. $5a^{-2}b$

10. $\left(\frac{-4x^0}{7}\right)^3$

Simplify the following without zero or negative Exponent.

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11. $a^{-2} + 3$

12. $x^{-1} - y^{-1}$

13. $2^{-3} + x$

14. $-3^{-2} - 3^{-1}$

15. $g^{-2} + g^0 - 3^0$

16. $3a^{-2} + b^0 - 2$

17. $-2^{-1} - 2^0 - 2^{-2}$

18. $\left(\frac{1}{7}\right)^{-2} - 7^{-2}$

19. $-5^{-1} - \frac{1}{5^{-1}}$

20. $\frac{a^{-2}}{b - 2^{-3}}$