Unit 6 Zero, Negative and Quotient Properties!

ZERO EXPONENTS:

1. 5^0
2. 10^0
3. $(-10)^0$
4. $(abc)^0$
5. $2(abc)^0$
6. $-5a^0$
7. $[(\sin\alpha \pm \sin\beta = 2\sin\frac{1}{2}(\alpha \pm \beta)\cos\frac{1}{2}(\alpha \mp \beta)]^0$
8. $\left(\frac{2}{9}\right)^0$
9. $(Algebra)^0$
10. $(s^3t^7u^{132})^0$

NEGATIVE EXPONENTS:

11. 3^{-3}
12. 4^{-6}
13. c^{-9}
14. $\frac{1}{3^{-5}}$
15. $\frac{1}{9^{-3}}$
16. $\frac{2}{b^{-9}}$
17. $5^0\left(\frac{a}{b^{-10}}\right)$
18. $(3b)^{-5}$
19. $8x^{-2}y^{-8}$
20. $(5x)^0y^{-2}$
21. $\frac{3x^0}{y^{-3}}$
22. $(2x^3y^{-8})^{-3}$

QUOTIENT PROPERTIES:

23. $\frac{4^4}{4^2}$

24. $\frac{10^5}{10^4}$

25. $\frac{(-3)^7}{(-3)^2}$

26. $\left(\frac{2}{x}\right)^5$

27. $\left(\frac{6}{7}\right)^{-2}$

28. $\frac{-4^8}{(-4)^8}$

29. $\frac{5^{-2}}{5^{-2}}$

30. $\left(\frac{2^2}{a^5}\right)^3$

31. $\frac{7^{-2}\times 7^6}{(7^2)^2}$

32. $\frac{7^{-2}\times 7^6}{(7^2)^2}$

33. $\left(\frac{7x^{-2}y}{x^8y^{-5}}\right)^3$