1. Evaluate -3^2

_____

2. Evaluate 4^3

_____

3. Evaluate $(-2)^4$

_____

4. Explain why $-8^2 \neq (-8)^2$

_____

_____

_____

5. Simplify $x^5 \cdot x^2$

_____

6. Simplify $3y^4 \cdot 2y^4$

_____

7. Simplify $(x^2)^3$

_____

8. Simplify $(2x^5)^3$

_____

9. Simplify $\dfrac{x^{12}}{x^3}$

_____

10. Simplify $\dfrac{p^9}{p^3}$

_____

11. Simplify $\dfrac{10y^8}{2y}$

_____

12. Simplify $q \cdot q^3$

_____

13. Evaluate -6^0

_____

14. Evaluate $9^{-3} \cdot 9^3$

_____

15. Rewrite using positive exponents $2f^{-2}$

_____

16. Rewrite using positive exponents $\frac{1}{a^{-6}}$

_____

17. Rewrite using positive exponents $4x^{-2}y^2$

_____

18. Evaluate 4^{-2}

_____

19. Write in standard form 4×10^5

_____

20. Write in standard form 2×10^{-4}

_____

21. Write $21,000,000$ in scientific notation

_____

22. Write 0.00002 in scientific notation

_____

23. Explain why 0.3×10^{-4} is not written in in proper scientific notation

_____

_____

24. Write $c \cdot c \cdot c \cdot d \cdot d \cdot d$ using exponents

_____

25. Simplify $(7g)^2$

_____

26. Simplify $\dfrac{k^5}{k^8} \cdot \dfrac{k^7}{k^2}$

_____

27. Rewrite using positive exponents $x^2 y^{-3} z^4$

_____

28. Simplify $\dfrac{r^5}{r^9}$, express your answer using positive exponents

_____

29. Evaluate $\left(\dfrac{1}{5}\right)^2$

_____

30. Evaluate $6^{-5} \cdot 6^7$

_____

31. Simplify $(t^2)^4$

_____

32. Simplify $\dfrac{w^4 \cdot w^9}{w^5 \cdot w^8}$

_____

33. Evaluate $(-2)^3$

_____

34. Evaluate $2^{-3} \cdot 2^5$

_____

35. Simplify $(n^5)^3 - (n^3)^5$

_____

36. Rewrite using positive exponents $2a^{-1} b^2 c^{-3}$

_____