

Notes:

- Like last week, your assignment is due on Friday, 5/15

Part 1: Exponent Properties

1. $(x^3)^4$

2. $\frac{v^5}{v^3}$

3. $g^5 \cdot g^6$

4. $\left(\frac{x}{y}\right)^8$

5. $(6x^2)$

6. $(3xy)^3$

7. $z^3 \cdot z^9$

8. $(4x^2)^2$

9. $\left(\frac{r^3}{w^2}\right)^5$

10. $\left(\frac{3x^2y}{q^3b^4}\right)^2$

Part 2: Negative Exponents and Zero

11. x^{-3}

16. 4^0

12. $\frac{1}{x^{-4}}$

17. $\frac{1}{3^{-2}}$

13. x^{-2}

18. $\frac{1}{2^{-4}}$

14. $\frac{1}{x^{-5}}$

19. 7^0

15. 2^{-2}

20. 5^{-3}

Part 3: Fractional Exponents

21. $(8)^{4/3}$

22. $(81)^{5/4}$

23. $(343)^{2/3}$

24. $(1000)^{4/3}$

25. $(27)^{2/3}$