

## Laws of Exponents

1.  $\frac{x^4}{x^2}$

2.  $\frac{x^{12}}{x^9}$

3.  $\frac{x^{14}}{x^{12}}$

4.  $\frac{x^4}{x^6}$

5.  $\frac{x^9}{x^{10}}$

6.  $\frac{x^{11}}{x^6}$

7.  $\frac{x^4 y^5}{x^3 y^7}$

8.  $\frac{x^{15} y^{11}}{x^8 y^7}$

9.  $\frac{x^9 y^8}{x^5 y^3}$

10.  $\frac{x^2 y^3 z^2}{x^3 y^7 z^5}$

11.  $\frac{x^5 y^4 z^5}{x^2 y^8 z^2}$

12.  $\frac{x^7 y^9 z^{12}}{x^6 y^3 z^5}$

13.  $\frac{(x^4)^2}{(x^2)^3}$

14.  $\frac{(x^5)^3}{(x^6)^2}$

15.  $\frac{(x^2 y)^7}{(x^5 y^3)^2}$

16.  $\frac{(x^3 y^4)^3}{(x^4 y^2)^4}$

17.  $\frac{(xy^2 z^2)^2}{(x^3 y^2 z^3)^3}$

18.  $\frac{(x^2 y^3 z^4)^3}{(x^2 y^4 z^2)^2}$

19.  $\frac{12x^3}{4x^5}$

20.  $\frac{20x^4}{36x^7}$

21.  $\frac{28x^3 y^2}{24x^3 y^4}$

22.  $\frac{(4x^4)^3}{(5x^2)^2}$

23.  $\frac{(6x^2)^3}{(9x^3)^3}$

24.  $\frac{(2^3 x^5)^3}{(2^2 x^7)^2}$

25.  $\frac{(2^2 \cdot 3^4 x^2)^2}{(2^3 \cdot 3^2 x^3)^2}$

26.  $\frac{(5^2 \cdot 2^4 x^4 y^3)^2}{(5 \cdot 2^2 x^3 y^2)^3}$