

Name: \_\_\_\_\_ Date: \_\_\_\_\_

**Exponent Rules Practice**

1.  $(4a^2)(a^3)(3a^6)$

2.  $(e^{2f^4})(ef)^2$

3.  $(y^2z)(yz^{-4})$

4.  $(10^2)^{-3}$

5.  $\left((4^2)^2\right)^2$

6.  $(2x^2)^4(3x^5)^2$

7.  $\frac{10x^4y^8}{22x^2y}$

8.  $(-6p)^2$

9.  $(4g^3h)(-2g)^5$

10.  $(2ab^2c^2)(4a^3b^2c^2)$

11.  $-6(x^2y^3)^4$

12.  $\frac{14g^{-5}h^{-2}}{28g^{-7}h^4}$

13.  $-\frac{3r}{5}(15r^2)$

14.  $\frac{(x^4y)(xy^7)}{x^5y^{11}}$

15.  $(cd^{-3})^{-2}$

16.  $\frac{(2m^4n)^3}{-10m^8n^3}$

17.  $-6(x^2y^3)^4$

18.  $(e^2f^4)(ef^3)^2$

19.  $\frac{6^{-2}x^4}{2^{-3}x^{-3}}$

20.  $\frac{5x^4}{(6x^7)^0}$

21.  $\left(\frac{1}{2ay^3}\right)^{-2}$

22.  $\frac{(3x^{-2}y^3)(5xy^{-8})}{x^{-3}y^{-2}}$

23.  $\frac{-27x^5y^4}{9x^3y^4}$

24.  $\frac{48x^{12}y^8}{20x^{14}y^6}$