

Name: _____

Unit 6: Exponents & Exponential Functions

Date: _____ Bell: _____

Homework 4: Negative Exponents

**Directions:** Simplify the following monomials. Your answer should contain positive exponents only!1. x^{-7}

$$\frac{1}{x^7}$$

2. $5x^2y^3$

$$\frac{5x^2}{y^3}$$

3. $-4a^{-2}b^{-2}$

$$\frac{-4}{a^2b^2}$$

4. $(ab^2)^{-4}$

$$a^{-4}b^{-8}$$

$$= \boxed{\frac{1}{a^4b^8}}$$

5. $-8(x^3y^4)^{-5}$

$$-8x^{15}y^{-20}$$

$$= \boxed{\frac{-8x^{15}}{y^{20}}}$$

6. $(3x)^{-3}$

$$\frac{1}{27}x^{-3}$$

$$= \boxed{\frac{1}{27x^3}}$$

7. $(a^2)(a^3)$

$$a^{-5}$$

$$= \boxed{\frac{1}{a^5}}$$

8. $(x^3)^{-3}(-2y^5)^4$

$$x^{-9} \cdot 16y^{20}$$

$$= \boxed{\frac{16y^{20}}{x^9}}$$

9. $(a^2b^3)^{-2}(a^5b^4)^{-3}$

$$a^{-4}b^{-6} \cdot a^{-15}b^{-12}$$

$$= \boxed{\frac{1}{a^{19}b^{18}}}$$

10. $(2r^4)^{-5}$

$$\frac{1}{32}r^{-20}$$

$$= \boxed{\frac{1}{32r^{20}}}$$

11. $(-11x^2y)^{-2}$

$$\frac{1}{121}x^{-4}y^{-2}$$

$$= \boxed{\frac{1}{121x^4y^2}}$$

12. $(x^3y^6)^{-2} + (x^2y^4)^{-3}$

$$x^{-6}y^{-12} + x^{-6}y^{-12}$$

$$= \boxed{\frac{2}{x^6y^{12}}}$$

13. $\frac{2}{3}ab^2c^{-4}$

$$= \boxed{\frac{2}{3} \cdot \frac{1}{b^2c^4}}$$

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

$$= \boxed{\frac{5}{12} \cdot \frac{1}{x^3y^4}}$$

15. $\frac{3}{10}x^2y^3$

$$= \boxed{\frac{3}{10} \cdot \frac{1}{x^2y^3}}$$

16. $\frac{1}{4}ab^2c^{-4}$

$$= \boxed{\frac{1}{4} \cdot \frac{1}{b^2c^4}}$$

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

$$= \boxed{\frac{3}{5} \cdot \frac{1}{x^3y^4}}$$

18. $\frac{2}{3}x^2y^3$

$$= \boxed{\frac{2}{3} \cdot \frac{1}{x^2y^3}}$$

19. $\frac{1}{2}x^3y^4$

$$= \boxed{\frac{1}{2} \cdot \frac{1}{x^3y^4}}$$

20. $\frac{3}{4}x^3y^4$

$$= \boxed{\frac{3}{4} \cdot \frac{1}{x^3y^4}}$$

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

$$= \boxed{\frac{2}{3} \cdot \frac{1}{x^2y^3}}$$

Exponents Exponential Functions Homework 4 Negative Exponents

Marcel A. Müller



Exponents Exponential Functions Homework 4 Negative Exponents:

Whispering the Techniques of Language: An Psychological Quest through **Exponents Exponential Functions Homework 4 Negative Exponents**

In a digitally-driven earth wherever displays reign great and quick communication drowns out the subtleties of language, the profound secrets and mental subtleties hidden within words usually move unheard. Yet, set within the pages of **Exponents Exponential Functions Homework 4 Negative Exponents** a fascinating fictional value blinking with natural feelings, lies an exceptional journey waiting to be undertaken. Written by an experienced wordsmith, this charming opus encourages readers on an introspective journey, lightly unraveling the veiled truths and profound influence resonating within the cloth of each and every word. Within the emotional depths of the moving review, we can embark upon a honest exploration of the book is primary styles, dissect its captivating publishing design, and succumb to the powerful resonance it evokes serious within the recesses of readers hearts.

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