

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

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

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

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

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

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

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

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

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

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

$$= \boxed{\frac{2}{3}ab^2c^{-4}}$$

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

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

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

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

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

$$= \boxed{\frac{2}{3}ab^2c^{-4}}$$

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

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

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

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

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

$$= \boxed{\frac{2}{3}ab^2c^{-4}}$$

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

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

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

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

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