

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

$$x^{-6} \cdot 16y^{20}$$

$$= \boxed{\frac{16y^{20}}{x^6}}$$

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. $(2x)^{-5}$

$$\frac{1}{32x^5}$$

$$= \boxed{\frac{1}{32x^5}}$$

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

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

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

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

$$x^{-6}y^{-2} + x^{-6}y^{-12}$$

$$= \boxed{\frac{1}{x^6y^2} + \frac{1}{x^6y^{12}}}$$

13. $\frac{1}{2}x^{-2}$

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

$$= \boxed{\frac{1}{2x^2}}$$

14. $\frac{1}{25}x^{-4}$

$$\frac{1}{25x^4}$$

$$= \boxed{\frac{1}{25x^4}}$$

15. $\frac{1}{10}x^{-3}$

$$\frac{1}{10x^3}$$

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

16. $\frac{1}{3}ab^{-2}$

$$\frac{1}{3}ab^{-2}$$

$$= \boxed{\frac{1}{3}ab^{-2}}$$

17. $\frac{1}{5}x^{-2}y^3$

$$\frac{1}{5}x^{-2}y^3$$

$$= \boxed{\frac{1}{5}x^{-2}y^3}$$

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

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

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

19. $\frac{1}{2}x^{-2}$

$$\frac{1}{2}x^{-2}$$

$$= \boxed{\frac{1}{2x^2}}$$

20. $\frac{1}{5}x^{-2}y^3$

$$\frac{1}{5}x^{-2}y^3$$

$$= \boxed{\frac{1}{5}x^{-2}y^3}$$

21. $\frac{1}{12}x^{-2}y^3$

$$\frac{1}{12}x^{-2}y^3$$

$$= \boxed{\frac{1}{12}x^{-2}y^3}$$

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G Thomas



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