

Name _____

Period _____

Algebra 8: 7.3c Assignment

Directions: Simplify each expression. Include calculations or an explanation to support your answers.

1. $(2t)^5$

5. $-(2x^5)^3$

2. $(6k)^2$

6. $(a^2b^2)^5 \cdot (a^{-5})^2$

3. $(r^2s)^7$

7. $(3x)^{-3}$

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

8. $(5w^{-8})^2$

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9. $(p^{-4}q^2)^7$

13. $(ab)^3 \cdot (ab)^{-2}$

10. $(-4x^3)^4$

14. $(x^2y^2)^2 \cdot (x^2y)^{-2}$

11. $-(4x^3)^4$

15. $(2x^3)^{-1} \cdot (2x^4)^2 \cdot (4x^2)^{-3}$

12. $(x^3y^4)^3 \cdot (xy^3)^{-2}$