

Algebra 8: 7.1b Assignment**Directions:** Simplify each expression. Include calculations or an explanation to support your answers.

1. $4m^0$

9. $4x^{-6}y^{-2}$

17. $\frac{r^{-5}}{s^{-1}}$

2. $3k^{-4}$

10. b^0c^0

18. $\frac{s^5}{t^{-12}}$

3. $2x^0y^{-4}$

11. $\frac{7}{r^{-7}}$

19. $\frac{3w^{-5}}{x^{-6}}$

4. p^7q^{-1}

12. $\frac{x^{10}}{d^{-3}}$

20. $\frac{2}{3}m^{-1}n^5$

5. k^{-4}

13. $\frac{f^{-4}}{g^{-6}}$

21. $\frac{q^{-2}r^0}{s^0}$

6. $2z^{-8}$

14. $\frac{c^4}{d^{-3}}$

22. $\frac{a^{-7}b^2}{c^3d^{-4}}$

7. $c^{-2}d$

15. $\frac{1}{2b^{-3}}$

23. $\frac{h^3k^{-1}}{6m^2}$

8. $-5x^{-3}$

16. $\frac{2f^0}{7g^{-10}}$