



7. $y > -2x - 5, y < -x - 1$

8. $y < 2, x > -2, x < -1$

9. $y \leq -3x + 6, y < -\frac{1}{2}x - 2, y < 3x - 6$

D. Properties of Exponents

1. 8^9 2. 5^{13} 3. $(-6)^{12}$ 4. d^{17} 5. r^{20}

6. k^6 7. 10^{18} 8. $(-6)^{16}$ 9. t^{15}

10. b^{16} 11. $(p + 5)^{14}$ 12. $(h - 1)^{45}$

13. $5^6 \cdot 4^6$ 14. $27g^3h^3$ 15. $36c^2d^2$

16. $16p^4$ 17. $-125t^3$ 18. $-64a^2$

19. 18^6 20. 2^{32} 21. $(-25)^2$ 22. 4^{12}

23. n^4 24. w^2 25. $\frac{2^3}{5^3} = \frac{8}{125}$

26. $\frac{5^2}{8^2} = \frac{25}{64}$ 27. $\frac{1}{p^8}$ 28. $\frac{r^6}{s^6}$ 29. $-\frac{u^9}{v^9}$

30. $-\frac{32}{b^5}$ 31. $\frac{1}{11^2} = \frac{1}{121}$ 32. 1

33. $\frac{1}{4^3} = \frac{1}{64}$ 34. $\frac{1}{(-3)^4} = \frac{1}{81}$

35. $6^2 = 36$ 36. 1

Quiz

1. 7^{10} 2. $(-8)^{13}$ 3. y^{29} 4. 6^{15} 5. $(-4)^{21}$

6. s^{12} 7. $(a + 11)^{32}$ 8. $8^{13} \cdot 2^{13}$

9. $-(5)^7 j^7 k^7 = -78,125 j^7 k^7$ 10. 3^{13}

11. v^9 12. $-\frac{3^3}{4^3} = -\frac{27}{64}$ 13. $\frac{16}{h^2}$

14. $-\frac{p^{15}}{q^{15}}$ 15. 1 16. $-\frac{1}{2^5} = -\frac{1}{32}$

17. $7^2 = 49$ 18. 1

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Answer Key

