

Properties of Exponents
Emphasis on Dividing Like Bases

Simplify each of the following:

1. $\frac{9d^{-6}}{7d}$

2. $\frac{4b^4}{6b^6w^2}$

3. $\frac{c^2}{c^{-6}}$

4. $\frac{9gd^{-4}}{5g^{-2}d^2}$

5. $\frac{4w^{-6}}{5w^2}$

6. $\frac{d}{d^4}$

7. $\frac{b^9}{b^{-2}}$

8. $\frac{2}{2^8}$

9. $\frac{8h^3}{2h}$

10. $\frac{gh}{8g^4h^6}$

11. $\frac{7^4}{7^{-6}}$

12. $\frac{4w^{-6}}{6w^2}$

13. $\frac{d^2}{d^{-2}}$

14. $\frac{2c^2}{8c^4}$

15. $\frac{gb}{9g^{-2}b^{-5}}$

16. $\frac{6k^8}{2k^4}$

17. $\frac{2^{-2}3^3}{2^{-4}3^6}$

18. $\frac{10a^{23}}{5a^{-15}}$

19. $\frac{b^3g^{-8}h^{-5}k^7}{b^{-1}g^2h^3k^{-2}}$

20. $\frac{3w^{-1}}{9w^6}$