

Algebra 1 Review Sec 8-1, 8-3 to 8-5 Spring 2014

1. Evaluate each expression for $A = -8$ $B = 4$ $C = 6$
Give fractional answers in reduced form (NO DECIMALS)

a) $B^{-2} \cdot C^3$

b) $2A^2B$

c) $\frac{81B^2C^{-3}}{A^0}$

Simplify each. Give answers so that there are no exponents that are negative or zero. Give fractional answers in reduced form (NO DECIMALS)

2. $5A^{-3}$

3. $-7k^6m^4km^{-2}$

4. $(10A^6)^2$

5. $(8d^3)^1$

6. $E^4 \cdot F^{-3} \cdot G^{-8} \cdot E^{-4} \cdot G^5 \cdot F^9$

7. $\frac{-2}{w^{-7}}$

8. $(2a^4b^{-5})^3$

9. $(5B^{-7}C^4)^0$

10. $(M^{-2}K^4R)^{-4}$

11. $\left(\frac{9R^5}{c^7}\right)^{-1}$

12. $(15r^8w^7j^{12})^0(5r^{-3}w^4r^{-2}w)^2$

13. $(5H^3K^{-9})^2(2H^5K^3)^4$

14. $\frac{8^{-2}e^{-8}g^5h^0}{w^7x^{-1}}$

15. $\left(\frac{5N^6Q^{-4}}{w^7}\right)^{-2}$

16. $\left(\frac{m^4}{4h^3}\right)^2$

17. $\frac{5w^{12}}{20w^3}$

18. $\frac{-18a^{14}}{6a^7}$

19. $\frac{24b^5}{18b^{-3}}$

20. $\frac{c^{-9}}{c^{-4}}$

21. $\frac{g^{-2}}{g^{-10}}$

22. $\frac{(3m^3n^4)^3}{(6m^{-1}n^5)^2}$

23. $\left(\frac{j^7k^{-2}}{j^3k^5}\right)^2$

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ANSWERS

1. a) $\frac{27}{2}$ b) 512 c) 6

2. $\frac{5}{A^3}$ 3. $-7k^7m^2$ 4. $100A^{12}$ 5. $8d^3$

6. $\frac{F^6}{G^3}$ 7. $-2w^7$ 8. $\frac{8a^{12}}{b^{15}}$

9. 1 10. $\frac{M^8}{K^{16}R^4}$ 11. $\frac{c^7}{9R^5}$

12. $\frac{25w^{10}}{r^{10}}$ 13. $\frac{400H^{26}}{K^6}$ 14. $\frac{g^5x}{64e^8w^7}$

15. $\frac{Q^8w^{14}}{25N^{12}}$ 16. $\frac{m^8}{16h^6}$ 17. $\frac{w^9}{4}$ 18. $-3a^7$

19. $\frac{4b^8}{3}$ 20. $\frac{1}{c^5}$ 21. g^8 22. $\frac{3m^{11}n^2}{4}$ 23. $\frac{j^8}{k^{14}}$