

Simplify each.

1. $(((((w^4x^3)^2)^5)^3)^2$ $w^{240} x^{180}$

2. $(((((a^8b^5)^3)^0)^4)^5)^6 = 1$

Simplify each.

1. $\frac{A^5B^{-2}A^7B^{-3}}{A^{12}B^{-5}} = \frac{A^{12}}{B^5}$

2. $\frac{C^{-4}D^5}{C^7D^{-3}} = \frac{D^8}{C^{11}}$

3. $\frac{W^6}{W^2} = W^4$

$\frac{\cancel{W} \cancel{W} \cancel{W} \cancel{W} \cancel{W} \cancel{W}}{\cancel{W} \cancel{W}}$

Section 8-5:

Dividing Properties of exponents:

Dividing Powers with the Same Base:

$\frac{a^6}{a^2}$ Subtract Exponents $a^{6-2} = a^4$

Simplify each.

1. $\frac{A^{24}}{A^8} = A^{24-8} = A^{16}$

numerator exponent - denominator exponent:
result should be put in the NUMERATOR

2. $\frac{B^4}{B^{20}} = \frac{1}{B^{16}}$

denominator exponent - numerator exponent:
result should be put in the DENOMINATOR

Simplify each. Give answer with exponents that aren't Zero or Negative.
No decimals in your answers, reduce fractions.

1. $\frac{Q^9}{Q^3} = Q^6$ 2. $\frac{K^2}{K^{10}} = \frac{1}{K^8}$ 3. $\frac{A^6}{A^{-10}} = A^{16}$

4. $\frac{B^{-7}}{B^4} = \frac{1}{B^{11}}$
 $B^{-7-4} = B^{-11}$

5. $\frac{C^{-9}}{C^{-5}} = \frac{1}{C^4}$
 $C^{-9--5} = C^{-4}$

6. $\frac{D^{-3}}{D^{-6}} = D^3$
 $D^{-3--6} = D^3$