



Exponents - Practice

Simplify the following problems. Use positive exponents

1. $x^5x^7 =$

6. $x^{-4}y^{-7} =$

2. $\frac{x^{10}y^7}{x^6y^{12}}$

7. $(2x^2y^3)^{-2}$

3. $(x^{-2}y^{-3})^{-2}$

8. $\frac{6x^{11}y^6}{36x^6y^{12}}$

4. $\frac{x^{-2}y^5}{x^{-3}z^{-2}}$

9. $\frac{36x^{11}y^{-6}}{16x^{-6}y^{12}}$

5. $x^5x^{-7} =$

10. $(x^2y^2)^3(x^{-2}y^2)^{-4}$

Solutions:

1. x^{12}

2. $\frac{x^4}{y^5}$

3. x^4x^6

4. x^1x^7

5. $\frac{x^5}{y^7}$

6. $\frac{1}{x^4y^7}$

7. $\frac{1}{4x^4y^6}$

8. $\frac{1x^5}{6x^4y^6}$

9. $\frac{9x^{16}}{4y^{18}}$

10. $\frac{x^{10}}{y^2}$