

Simplify and express the following expressions with positive indices.

1. $\frac{(x^4y^{-3})^4}{xy}$

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

3. $\frac{(x^5y^3)^{-1}}{xy^2}$

4. $\frac{(x^{-3}y^{-1})^2}{x^4y}$

5. $\frac{(x^4y^{-5})^{-1}}{x^2y^5}$

6. $\frac{x^{-3}y^{-5}}{(x^2y^{-1})^{-2}}$

7. $\frac{x^5y^{-3}}{(x^{-3}y^2)^5}$

8. $\frac{x^{-4}y^3}{(x^{-3}y^4)^{-2}}$

9. $\frac{x^{-5}y^3}{(xy^4)^4}$

10. $\frac{x^3y^3}{(x^3y^{-1})^{-5}}$

11. $\frac{x^{-2}}{y} \left(\frac{y^3}{x^5} \right)^{-2}$

12. $\frac{x^{-2}}{y^2} \left(\frac{y^4}{x} \right)^{-4}$

13. $\frac{x^{-4}}{y^{-1}} \left(\frac{y^2}{x^{-3}} \right)^2$

14. $\frac{x^{-2}}{y^{-4}} \left(\frac{y^2}{x^{-5}} \right)^{-4}$

15. $\frac{x^{-2}}{y^{-1}} \left(\frac{y^5}{x^{-3}} \right)^{-4}$