

Use properties of exponents to simplify.

1. $x^2 x^3$

2. $\frac{b^5}{b^3}$

3. $\left(\frac{3a}{2}\right)^2$

4. $\left(\frac{5x}{3}\right)^3$

5. $\frac{14a^2}{7a}$

6. $\frac{5}{b^{-2}}$

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

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

9. $\frac{6x^2 y^{-1}}{x}$

10. $\frac{8x^5 y^3}{4x^3 y^3}$

11. $(-3x)^{-2}$

12. $(-3x^2)^2$