



Practice exercise: Exponents

Simplifying each exponent

1. $x^2 x^5 x^3 =$ _____

2. $(x^4)^7 =$ _____

3. $(p^3)^2 (p^4)^{-2} =$ _____

4. $(-\frac{1}{3} mn^2)^6 =$ _____

5. $(3x^3 y^4)^3 =$ _____

6. $(m^5 n^2)^{-3} =$ _____

7. $(\frac{b^n}{b^3})^3 =$ _____

8. $(4a)^3 (4a^4) =$ _____

9. $\frac{(3x^2)^{-2}}{x^3 x^{-4} x^0} =$ _____

10. $(x^{-2})^{-1} =$ _____

Answer Key

Practice exercise: Exponents

1. x^{10}

2. x^{28}

3. p^{-2}

4. $\frac{1}{729} m^6 n^{12}$

5. $27x^9 y^{12}$

6. $m^{-15} n^{-6}$

7. $\frac{b^{3n}}{b^9}$

8. $256a^7$

9. $\frac{1}{9x^3}$

10. x^2