UNIT 4 • EXPONENTIAL FUNCTIONS

Lesson 4.1: Applying the Properties of Integer Exponents

Practice 4.1: Applying the Properties of Integer Exponents

Α

For problems 1–3, evaluate each exponential expression.

- 1. 7-2
- 2. $\frac{3}{4^{-2}}$
- 3. After 4 rounds of a table tennis tournament, there are $32 \cdot 2^{-3}$ teams left in the competition. How many teams remain?

For problems 4–10, simplify each exponential expression. Write the expression with only positive exponents.

- 4. *y*⁻¹²
- 5. $a^{-2} \bullet a^8$
- 6. $x^{-3} \cdot y^0$
- 7. $\frac{x^4}{x^{13}}$
- 8. $(p^{-3})^{-6}$
- 9. $\frac{m^8 n^3}{m^5 n^7}$
- 10. $x^{14} \bullet (x^{-5})^2$