

# Chapter 3 Practice Test

## Student Text Pages

212 to 213

## Suggested Timing

45–60 min

## Tools

- grid paper
- graphing calculator

## Related Resources

- G–1 Grid Paper
- BLM 3–11 Chapter 3 Practice Test

## Summative Assessment

- You may wish to use **BLM 3–11 Chapter 3 Practice Test** as a summative assessment.

## Using the Practice Test

This practice test can be assigned as an in-class or take-home assignment. If it is used as an assessment, use the following guidelines to help you evaluate students.

Can students do each of the following?

- Identify the characteristics and properties of exponential functions
- Evaluate a power having a zero exponent
- Evaluate a power having negative and rational exponents
- Simplify algebraic expressions involving powers with negative and rational exponents
- Write an exponential equation given its graph or properties
- Identify and apply transformations of exponential functions
- Model and solve problems using exponential functions

## Study Guide

Use the following study guide to direct students who have difficulty with specific questions to appropriate examples to review.

Question	Section(s)	Refer to
1	3.1	Example 1 (pages 151–153)
2	3.3	Example 1 (pages 171–172)
3	3.5	Example 1 (pages 189–190)
4	3.1	Investigate (pages 150–151), Example 1 (pages 151–153)
5a), d), g)	3.3	Example 1 (pages 171–172)
5b)	3.2	Example 2 (page 164)
5c)	3.1	Example 2 (page 153)
5e), h)	3.3	Example 2 (pages 172–173)
5f)	3.2	Example 4 (page 165)
6a), b), c)	3.2	Example 3 (page 165)
6d), e), f)	3.3	Example 3 (page 173)
7	3.1	Investigate (pages 150–151)
8	3.4	Example 2 (page 182)
9	3.4	Example 1 (pages 180–181)
10	3.5	Example 2 (pages 190–191)
11	3.2	Example 1 (pages 162–163)
12	3.5	Example 3 (page 192)
13	3.5	Example 4 (pages 192–194)
14	3.6	Example 1 and 2 (pages 199–205)