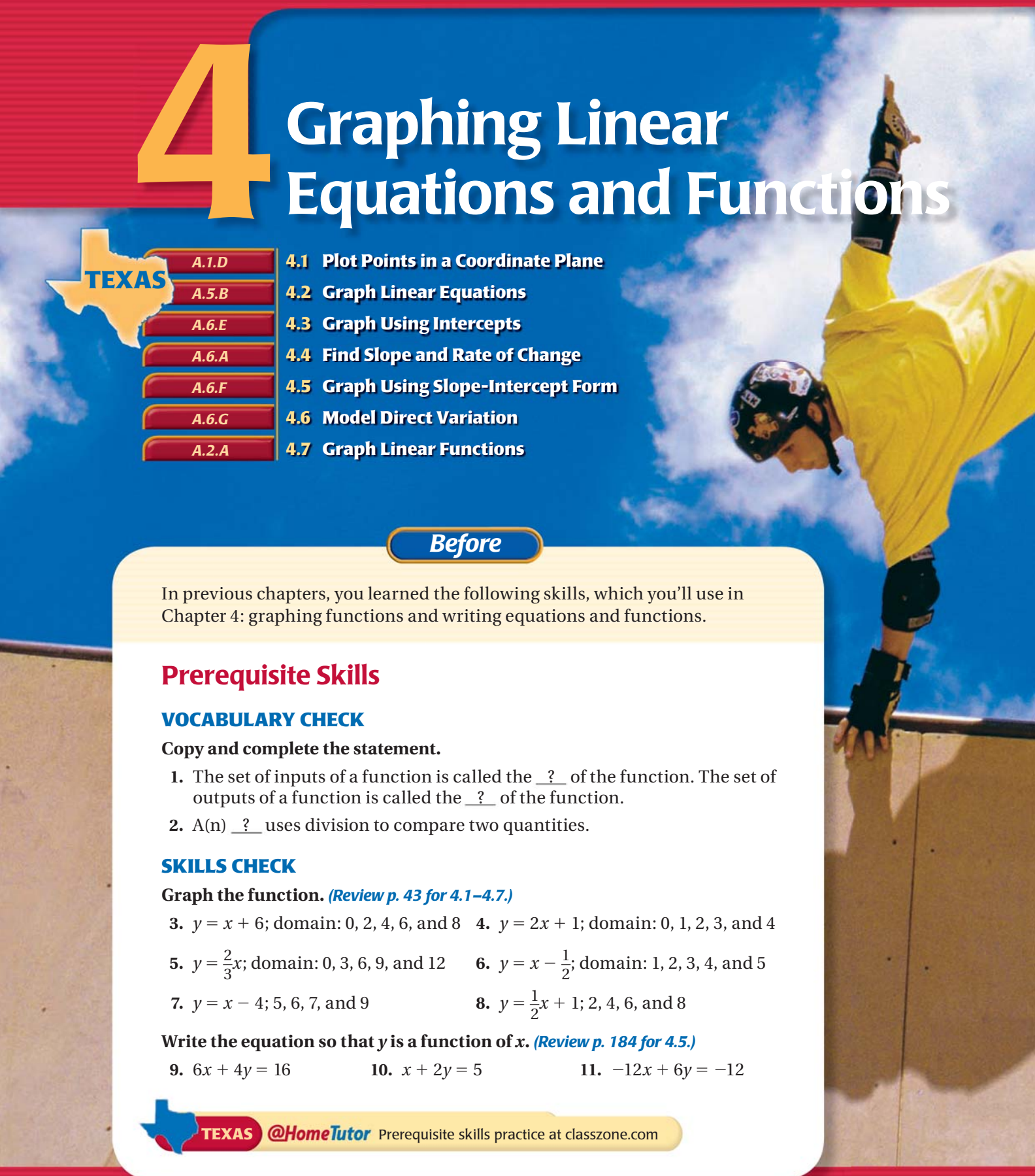
4 Graphing Linear Equations and Functions



TEXAS

Before

In previous chapters, you learned the following skills, which you'll use in Chapter 4: graphing functions and writing equations and functions.

Prerequisite Skills

VOCABULARY CHECK

Copy and complete the statement.

1. The set of inputs of a function is called the __?__ of the function. The set of outputs of a function is called the __?__ of the function.
2. A(n) __?__ uses division to compare two quantities.

SKILLS CHECK

Graph the function. *(Review p. 43 for 4.1–4.7.)*

3. $y = x + 6$; domain: 0, 2, 4, 6, and 8
4. $y = 2x + 1$; domain: 0, 1, 2, 3, and 4
5. $y = \frac{2}{3}x$; domain: 0, 3, 6, 9, and 12
6. $y = x - \frac{1}{2}$; domain: 1, 2, 3, 4, and 5
7. $y = x - 4$; 5, 6, 7, and 9
8. $y = \frac{1}{2}x + 1$; 2, 4, 6, and 8

Write the equation so that y is a function of x. *(Review p. 184 for 4.5.)*

9. $6x + 4y = 16$
10. $x + 2y = 5$
11. $-12x + 6y = -12$

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