

3 Linear Systems and Matrices



2A.3.A

2A.3.B

2A.3.A

2A.3.A

a.2

a.2

a.4

2A.3.B

3.1 Solve Linear Systems by Graphing

3.2 Solve Linear Systems Algebraically

3.3 Graph Systems of Linear Inequalities

3.4 Solve Systems of Linear Equations in Three Variables

3.5 Perform Basic Matrix Operations

3.6 Multiply Matrices

3.7 Evaluate Determinants and Apply Cramer's Rule

3.8 Use Inverse Matrices to Solve Linear Systems

Before

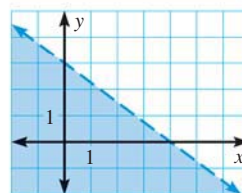
In previous chapters, you learned the following skills, which you'll use in Chapter 3: graphing equations, solving equations, and graphing inequalities.

Prerequisite Skills

VOCABULARY CHECK

Copy and complete the statement.

1. The **linear inequality** that represents the graph shown at the right is ?.
2. The **graph of a linear inequality** in two variables is the set of all points in a coordinate plane that are ? of the inequality.



SKILLS CHECK

Graph the equation. (Review p. 89 for 3.1.)

3. $y + x = 4$

4. $y = 3x - 3$

5. $-2x + 3y = -12$

Solve the equation. (Review p. 18 for 3.2, 3.4.)

6. $2x - 12 = 16$

7. $-3x - 7 = 12$

8. $-2x + 5 = 2x - 5$

Graph the inequality in a coordinate plane. (Review p. 132 for 3.3.)

9. $y \geq -x + 2$

10. $x + 4y < -16$

11. $3x + 5y > -5$



TEXAS

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Prerequisite skills practice at classzone.com