In Chapter 3, you will apply the big ideas listed below and reviewed in the Chapter Summary on page 221. You will also use the key vocabulary listed below.

Now

Big Ideas

- Solving systems of equations using a variety of methods
- **(2)** Graphing systems of equations and inequalities

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KEY VOCABULARY

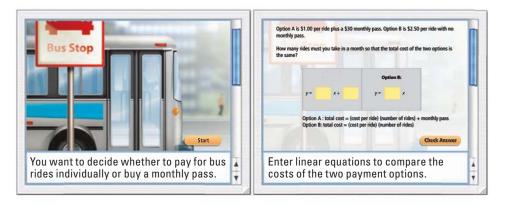
- system of two linear equations, *p. 153*
- consistent, p. 154
- inconsistent, p. 154
- independent, p. 154
- dependent, p. 154
- substitution method, p. 160
- elimination method, p. 161
- system of linear inequalities, p. 168
- system of three linear equations, *p. 178*
- ordered triple, p. 178
- matrix, p. 187
- determinant, p. 203
- Cramer's rule, p. 205
- identity matrix, p. 210
- inverse matrices, p. 210

You can use systems of linear equations to solve real-world problems. For example, you can determine which of two payment options for riding a bus is more cost-effective.

Why?

Animated Algebra

The animation illustrated below for Example 4 on page 155 helps you answer this question: After how many bus rides will the cost of two payment options be the same?



Animated Algebra at classzone.com

Other animations for Chapter 3: pages 161, 168, 196, and 211