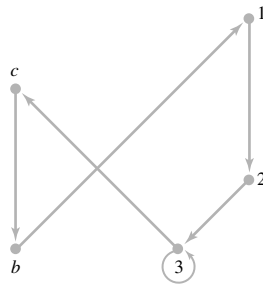


# Concept of a Relation

• **Example 1**

Write, in extension, the relation defined by the following graph.

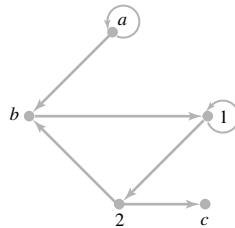


The relation determined by the graph is

$$\{(b, 1), (1, 2), (2, 3), (3, c), (c, b), (3, 3)\}$$

• • • **CHECK YOURSELF 1**

Write, in extension, the relation defined by the following graph.



• • • **CHECK YOURSELF ANSWER**

1.  $\{(a, a), (a, b), (b, 1), (1, 1), (1, 2), (2, b), (2, c)\}$ .

# 4.8 Exercises

Name \_\_\_\_\_

Section \_\_\_\_\_ Date \_\_\_\_\_

## ANSWERS

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

Write, in extension, the relations defined by each of the following graphs.

