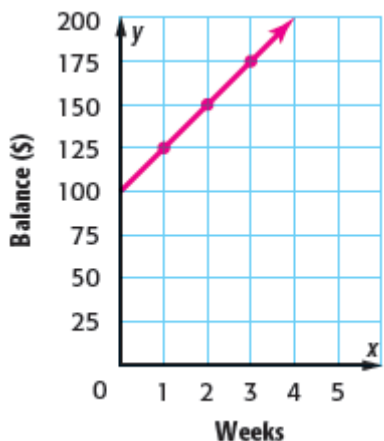# Chapter 1 Ratios and Proportional Reasoning

Lesson 1-5 Graph Proportional Relationships
Page 49

1 **Model with Mathematics** Determine whether the relationship between the two quantities shown in the table are proportional by graphing on the coordinate plane. Explain your reasoning.

Savings Account	
Week	Account Balance ($)
1	125
2	150
3	175

The relationship between the two quantities shown in the table are not proportional. They are not proportional because when they are graphed as ordered pairs on the coordinate plane, the line does not pass through the origin.

3 The height of two plants is recorded after 1, 2, and 3 weeks as shown in the graph at the right. Which plants' growth represents a proportional relationship between time and height? Explain.

The growth rate of Plant A is not proportional because the line is not straight.

The growth rate of Plant B is proportional because when the data is graphed on the coordinate plane, the line formed is a straight line that passes through the origin.

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