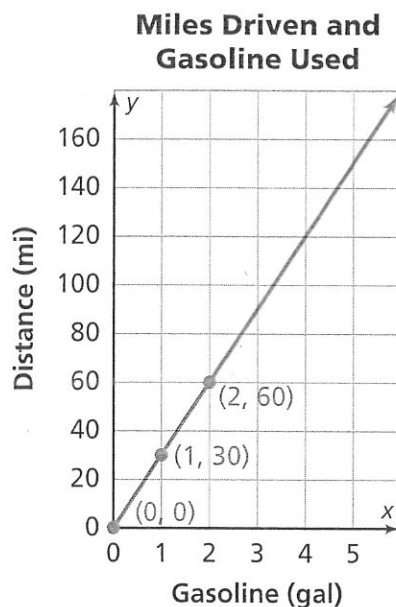**Problem 2.3** *continued*

B Noralie's car uses 20 gallons of gasoline to go 600 miles.

1. Write two unit rates relating the number of miles Noralie drives and the number of gallons her car uses. Explain your reasoning. What does each unit rate mean?

2. The graph below shows the relationship between distance d and gallons g of gasoline. Which unit rate appears on the graph? Explain.

Miles Driven and Gasoline Used

3. What equation relating d and g does the graph represent?

4. Which coordinate pair represents how far Noralie can drive on 1 gallon of gas? On zero gallons of gas?

5. Josh used the proportion $\frac{600}{20} = \frac{x}{4}$ to find the number of miles Noralie's car can travel on 4 gallons of gasoline. Lisa says she can use a unit rate.

a. Do you agree with Josh or with Lisa? Explain.

b. What other strategies can you use to find the number of miles Noralie's car can travel on 4 gallons of gasoline?