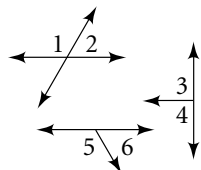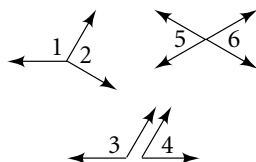# 2-2 • Guided Problem Solving

GPS **Student Page 91, Exercise 27**

Use the figures below to write a good definition of *linear pair*.

Linear pairs   Not linear pairs

Read and Understand

1. A good definition has several important components. List three of them.

_____

Plan and Solve

2. It appears that a linear pair shares a common side. Which
of the not-linear-pairs angles do not share a common side? _____

3. It also appears that a linear pair has a common vertex.
Does this seem to be true for all of the not linear pairs? _____

4. The not-linear-pairs figure that contains angles 1 and 2 includes a
common vertex and a common side. Why are they not a linear pair? _____

5. Based on these results, write a good definition of a *linear pair*.

_____

_____

Look Back and Check

6. Does your definition have the qualities of a good definition found in Steps 1–3? _____

7. Is your definition reasonable? Do the three given examples of linear pairs satisfy the definition?

_____

Solve Another Problem

8. In the figure at right, there are six different
pairs of angles. Which of them are linear pairs? _____

Which of them are not linear pairs? _____