* **3-49.** Decide if each pair of triangles below is similar. If the triangles are similar, **justify** your conclusion by stating the similarity conjecture you used. If the triangles are not similar, explain how you know.
	1. 
	2. 

*Equilateral Triangles*

* 1. 
	2. 
*
* **3-50.** Consider the following arrow diagram:

*Lines are parallel → alternate interior angles are equal.*

* 1. Write this arrow diagram as a conditional (“If…, then…”) statement.
	2. Write a similar conditional statement about corresponding angles, then write it as an arrow diagram.
* **3-51.** Find the area and perimeter of the shape below. Show all work.



* **3-52.** Assume that each pair of figures below is similar. Write a similarity statement to illustrate which parts of each shape correspond. Remember: letter order is important!
	1. *ABCD ∼* ?



* 1. *RIGHT ∼* ?



* 1. Δ\_\_\_\_ *∼* Δ\_\_\_\_



**3-62.** Determine whether or not the **reasoning** in the flowchart at right is correct. If it is wrong, redo the flowchart to make it correct. [Hints](http://www.cpm.org/students/homework/GC_Problems/GC_Ch3_Answers/GC3.2.2/GC_3_62.html)⇔[Help](http://www.cpm.org/students/homework/GC_Problems/GC_Ch3_Answers/GC3.2.2/GC_3_62m.html)

