## 4-2 Solve It!



Always looking for six pairs of congruent corresponding parts is tiring! There are quicker ways to tell if two triangles are congruent.

Are the triangles below congruent? How do you know?


## 4-2 Lesson Quiz

1. What other information do you need to prove $\triangle G H K \cong \triangle K L G$ by SAS? Explain.


## 2. Do you UNDERSTAND? Would you use SSS or SAS to prove

 the triangles congruent? If there is not enough information to prove the triangles congruent by SSS or SAS, write not enough information. Explain your answer.

## Answers

## Solve It!

Answers may vary. Sample: Yes, $\triangle A B C \cong \triangle D E F . \angle B \cong \angle E$ (Given) and $\angle C \cong \angle F$ (All rt. \& are $\cong$.). By the Third Angles Theorem, $\angle A \cong \angle D$. By the Distance Formula,
$A B=D E=\sqrt{50}, B C=E F=5$, and $A C=D F=5$. So the two $\Delta$ are $\cong$ by def. of $\cong$. .

## Lesson Quiz

1. $\angle H K G \cong \angle L G K$; if given that $\overline{H K} \| \overline{G L}$, these angles
are alternate interior angles and must be congruent.
2. $\mathrm{SSS} ; 2$ congruent sides are given and the 3rd side is congruent by the Reflexive Property of Congruence.
