



# 12-3 Solve It!




Draw a large diagram and draw the angle each point makes with the goal posts.

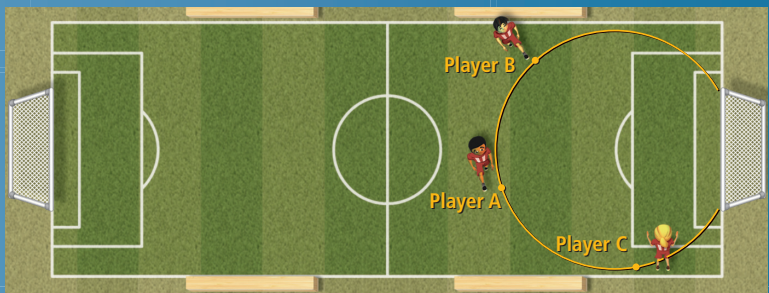


**SOLVE IT!**

Getting Ready!

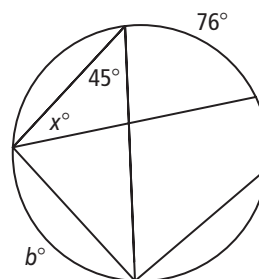


Three high-school soccer players practice kicking field goals from the points shown in the diagram. All three points are along an arc of a circle. Player A says she is in the best position because the angle of her kicks toward the goal is wider than the angle of the other players' kicks. Do you agree? Explain.

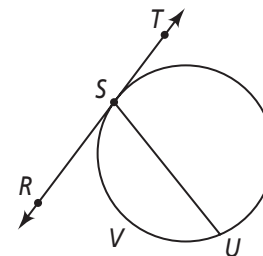


## 12-3 Lesson Quiz

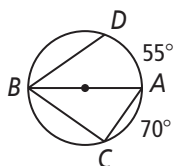
1. What are the values of  $x$  and  $b$ ?



2. Do you UNDERSTAND? In the diagram,  $\overleftrightarrow{RT}$  is tangent to the circle at  $S$ . If the measure of  $\widehat{SVU}$  is  $138^\circ$ , what is  $m\angle TSU$ ?



3. What is  $m\angle C$ ?



### Answers

#### Solve It!

No. Note to teacher: Through some method, students must determine that all three  $\triangle$  are  $\cong$ .

#### Lesson Quiz

1.  $x = 38, b = 90$
2. 111
3. 90