

PROPERTIES OF TRIANGLES

► *How can a goalkeeper best defend the goal?*



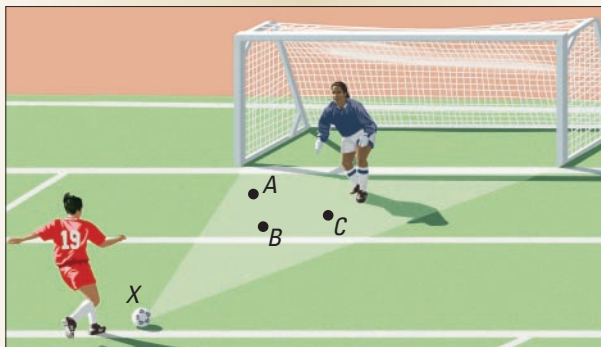
CHAPTER

5

APPLICATION: Goalkeeping

Soccer goalkeepers use triangle relationships to help block goal attempts.

An opponent can shoot the ball from many different angles. The goalkeeper determines the best defensive position by imagining a triangle formed by the goal posts and the opponent.



Think & Discuss

Use the diagram for Exercises 1 and 2.

1. The opponent at X is trying to score a goal. Which position do you think is best for the goalkeeper, A , B , or C ? Why?
2. Estimate the measure of $\angle X$, known as the *shooting angle*. How could the opponent change positions to increase the shooting angle?

Learn More About It

You will learn more about strategies of goalkeeping in Exercises 33–35 on p. 270.



APPLICATION LINK Visit www.mcdougallittell.com for more information about angles and goalkeeping.

