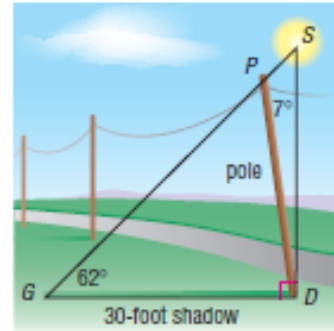


Group Problems

1. When the angle of elevation to the sun is  $62^\circ$ , a telephone pole tilted at an angle of  $7^\circ$  from the vertical casts a shadow of 30 feet long on the ground. Find the length of the telephone pole to the nearest tenth of a foot



2. **Soccer** Carlos and Adam are playing soccer. Carlos is standing 40 feet from one post of the goal and 50 feet from the other post. Adam is standing 30 feet from one post of the goal and 22 feet from the other post. If the goal is 24 feet wide, which player has a greater angle to make a shot on goal?

