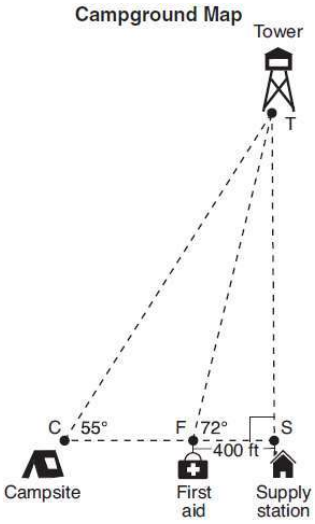
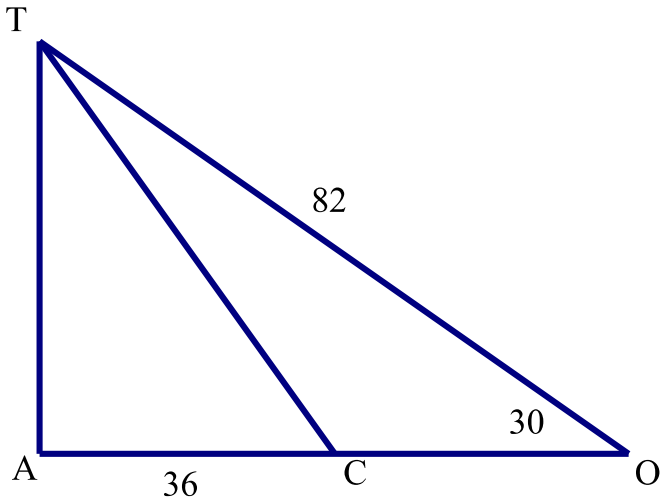
Name _____ Date _____
Mr. Schlansky Geometry

Compound Right Triangle Problems (Reflexive)

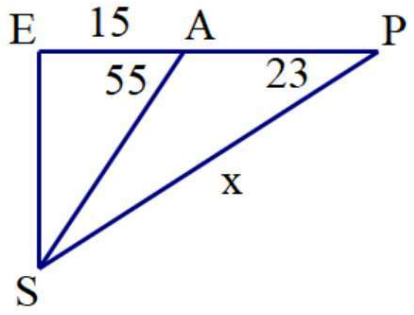
1. The map of a campground is shown below. Campsite *C*, first aid station *F*, and supply station *S* lie along a straight path. The path from the supply station to the tower, *T*, is perpendicular to the path from the supply station to the campsite. The length of path $\overline{FS}$ is 400 feet. The angle formed by path $\overline{TF}$ and path $\overline{FS}$ is 72°. The angle formed by path $\overline{TC}$ and path $\overline{CS}$ is 55°. Determine and state, to the *nearest foot*, the distance from the campsite to the tower.



2. Find the measure of $\angle TCA$ in the diagram of right triangle TAO below to the nearest tenth of a degree.



3. Find the measure of $\overline{SP}$ in the diagram of right triangle SEP below to the nearest unit.



4. Find the measure of $\overline{HT}$ in the diagram of right triangle HAT below to the nearest unit.