

1. Solve triangle EFG given that $e = 33$, $g = 22$, and $E = 74^\circ$. Draw a picture. Round angles to the nearest degree and sides to the nearest tenth.

2. Solve triangle ABC given that $m\angle A = 56^\circ$, $m\angle B = 47^\circ$, and $b = 61$. Round your answers to the nearest hundredth.

3. Solve triangle ABC given that $a = 17$, $b = 13$, and $c = 15$. Draw a picture and round to the nearest degree.

4. Suppose that three campers have two-way radios with a range of 7920 feet. The distance between sites #1 and #2 is 5750 feet, and the distance between sites #1 and #3 is 6690 feet. If the angle formed with site #1 at the vertex is 82° . How far apart are sites #2 and #3? Can the campers at those sites communicate with their radios?

5. Find the area of the figure to the nearest tenth two different ways.

