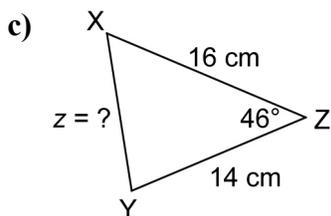
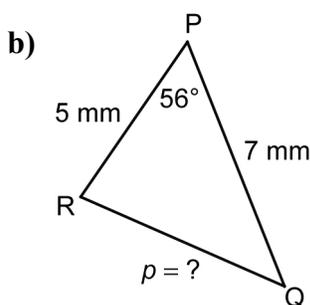
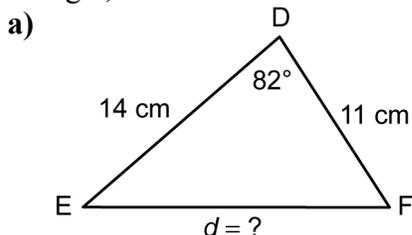


## Section 8.2 Practice Master

1. Find the length of the indicated side in each triangle, to the nearest tenth of a unit.

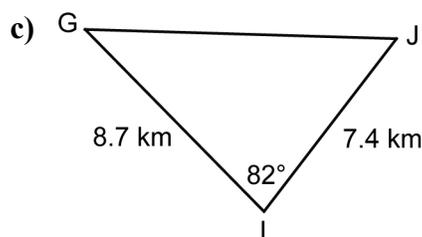
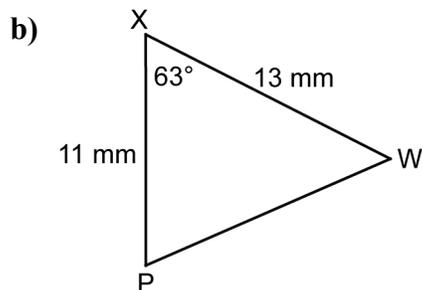
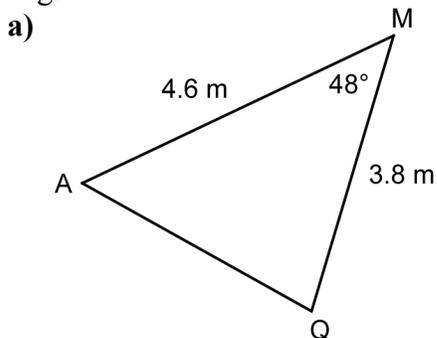


2. Sketch each triangle and use the given information to find the missing side length, to the nearest tenth of a unit.

a) In acute  $\triangle ABC$ ,  $a = 6.2$  cm,  $b = 4.7$  cm, and  $\angle C = 56^\circ$ .

b) In acute  $\triangle GHI$ ,  $g = 13$  m,  $h = 15$  m, and  $\angle I = 44^\circ$ .

3. Solve each triangle. Round side lengths to the nearest tenth of a unit and angles to the nearest degree.



4. Sketch each triangle and label the given information. Then, solve the triangle. Round side lengths to the nearest tenth of a unit and angles to the nearest degree.

a) In  $\triangle MCB$ ,  $\angle M = 61^\circ$ ,  $c = 18$  cm, and  $b = 21$  cm.

b) In  $\triangle HBQ$ ,  $\angle H = 71^\circ$ ,  $b = 14$  m, and  $q = 16$  m.

5. **Use Technology** Check your answers to question 4 using dynamic geometry software.

6. Find the length of the bridge, to the nearest metre.

