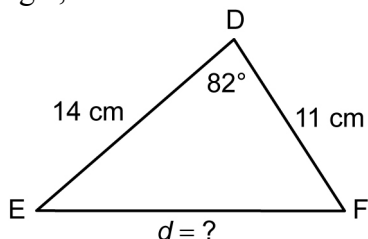


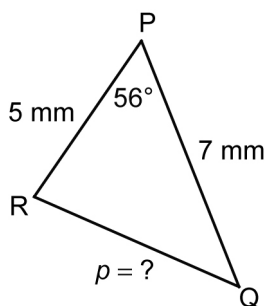
Section 8.2 Practice Master

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

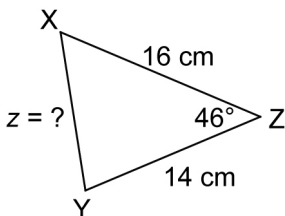
a)



b)



c)



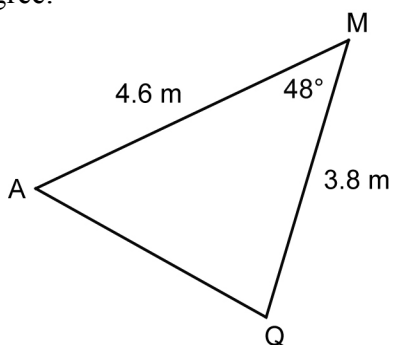
2. Sketch each triangle and use the given information to find the missing side length, to the nearest tenth of a unit.

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

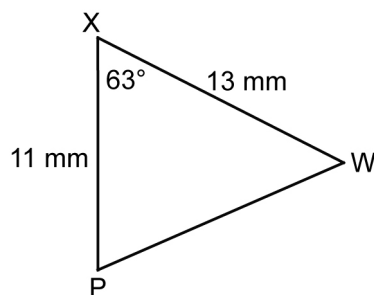
b) In acute $\triangle GHI$, $g = 13$ m, $h = 15$ m, and $\angle I = 44^\circ$.

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

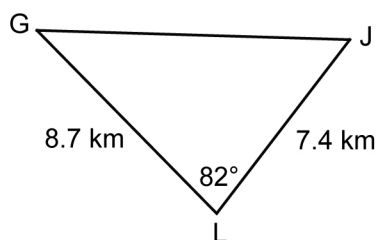
a)



b)



c)



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.

