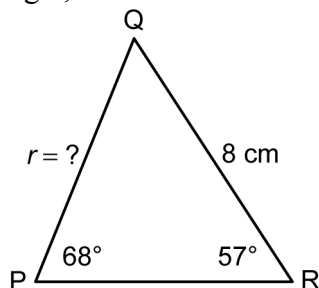


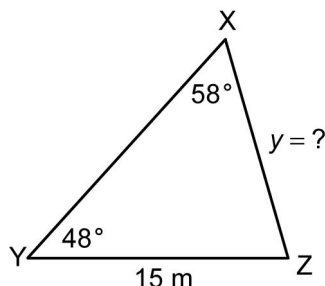
Section 8.1 Practice Master

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

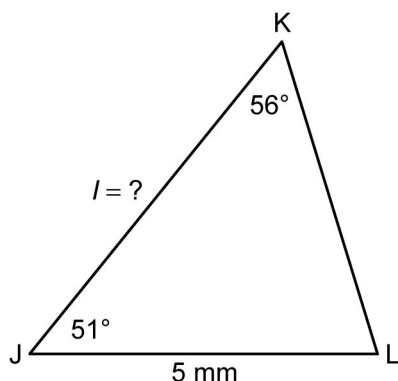
a)



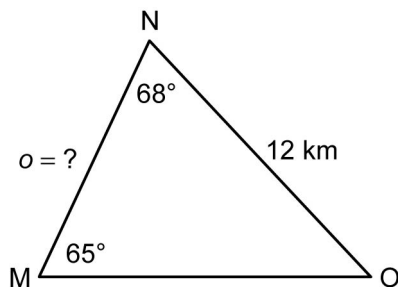
b)



c)



d)



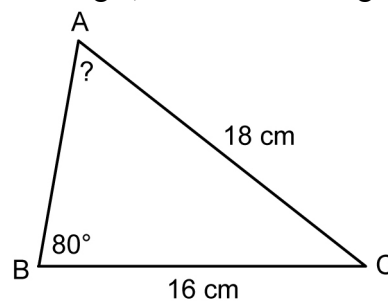
2. Draw a diagram and label the given information. Then, find the measure of the indicated side in each triangle, to the nearest tenth of a unit.

a) In acute $\triangle ABC$, $\angle A = 72^\circ$, $\angle B = 68^\circ$, and $a = 12$ cm. Find side b .

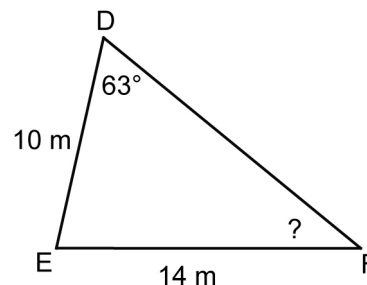
b) In acute $\triangle DEF$, $\angle D = 52^\circ$, $\angle F = 71^\circ$, and $e = 8.0$ m. Find side d .

3. Find the measure of the indicated angle in each triangle, to the nearest degree.

a)



b)



4. Draw a diagram and label the given information. Then, find the measure of the indicated angle in each triangle, to the nearest degree.

a) In acute $\triangle PQR$, $\angle P = 64^\circ$, $p = 5.7$ cm, and $r = 4.1$ cm. Find $\angle R$.

b) In acute $\triangle STU$, $\angle S = 57^\circ$, $s = 12$ m, and $u = 9$ m. Find $\angle U$.

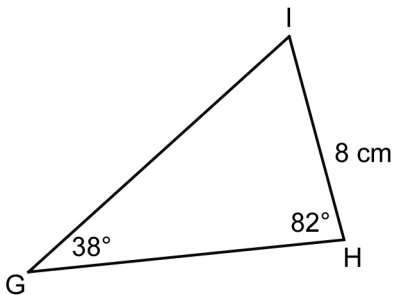
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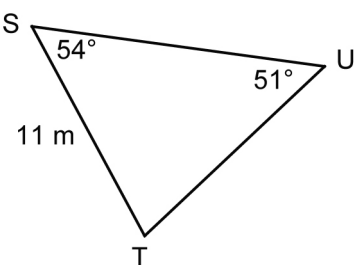
BLM 8-4
(page 2)

5. Solve each triangle. Round answers to the nearest unit.

a)

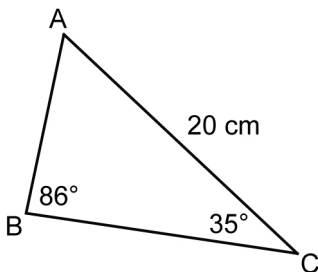


b)

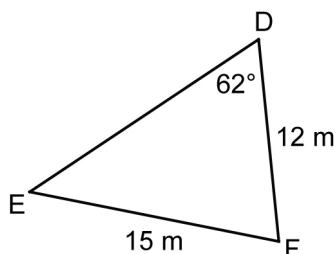


6. Solve each triangle. Round answers to the nearest unit.

a)



b)



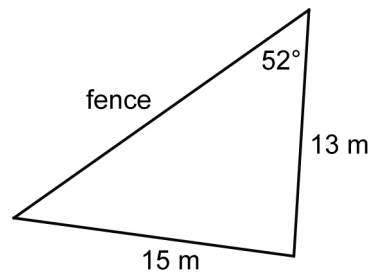
7. Draw a diagram and label the given information. Then, solve each triangle. Round answers to the nearest unit.

a) In $\triangle DMC$, $\angle D = 55^\circ$, $d = 21$ cm, and $m = 23$ cm.

b) In $\triangle KPR$, $\angle K = 63^\circ$, $\angle P = 71^\circ$, and $r = 13$ m.

8. **Use Technology** Check your answers to question 7 using dynamic geometry software.

9. Angela is building a garden in the shape of a triangle, as shown. She would like to put a fence on one side of the garden.



a) Find the angle formed by the fence and the side that is 15 m in length. Round your answer to the nearest degree.

b) Find the length of the fence, to the nearest metre.