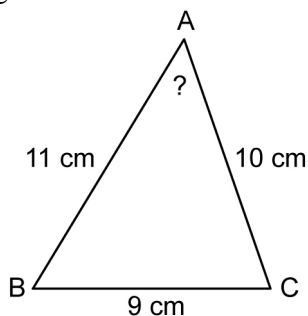


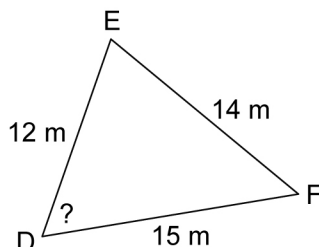
Section 8.3 Practice Master

1. Solve for the indicated angle, to the nearest degree.

a)

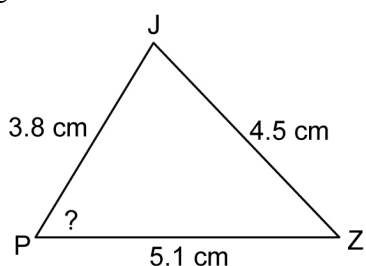


b)

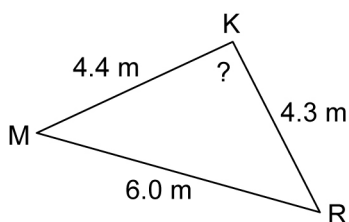


2. Solve for the indicated angle, to the nearest degree.

a)



b)



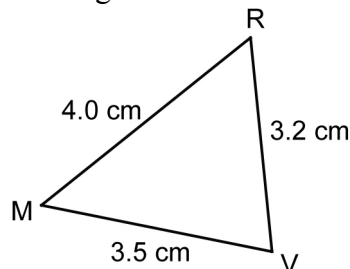
3. Sketch each triangle. Then, use the given information to find the indicated angle, to the nearest degree.

a) In acute $\triangle ABC$, $a = 3.4$ cm, $b = 4.1$ cm, and $c = 5.2$ cm. Find $\angle A$.

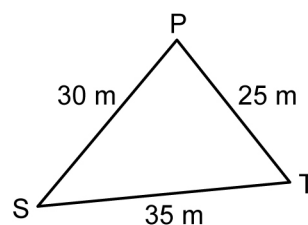
b) In acute $\triangle DEF$, $d = 22$ m, $e = 23$ m, and $f = 24$ m. Find $\angle E$.

4. Solve each triangle. Round answers to the nearest degree.

a)



b)



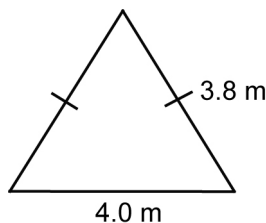
5. Sketch each triangle and label it with the given information. Then, solve the triangle. Round your answers to the nearest degree.

a) In acute $\triangle DEF$, $d = 5.1$ cm, $e = 6.2$ cm, and $f = 7.3$ cm.

b) In acute $\triangle PQR$, $p = 12$ m, $q = 14$ m, and $r = 16$ m.

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

7. Laurissa is designing a reflecting pool, in the shape of a triangle, for her backyard.



- a) Find the interior angles of the reflecting pool, to the nearest degree.
- b) Find the surface area of the water in the reflecting pool, to the nearest square metre.