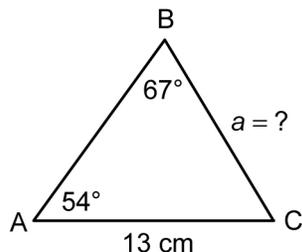


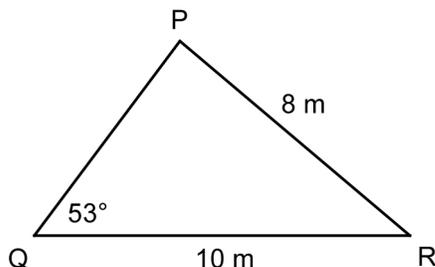
Chapter 8 Review

8.1 The Sine Law

1. Find a , to the nearest tenth of a centimetre.

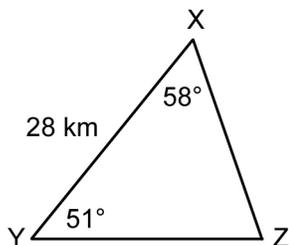


2. Find the measure of $\angle P$, to the nearest degree.



3. Solve each triangle. Round answers to the nearest tenth of a unit.

a)



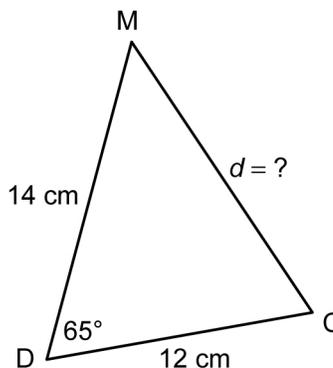
- b) In $\triangle DEF$, $\angle D = 73^\circ$, $\angle E = 64^\circ$, and $d = 9.0$ m.

4. Three trees are in the yard at the back of Aly's house. The oak tree is 10 m from the ash tree and 15 m from the maple tree. The line from the oak tree to the ash tree and the line from the ash tree to the maple tree form an angle of 78° .

- a) Draw a diagram and label the known information.
b) How far apart are the ash tree and the maple tree? Round your answer to the nearest tenth of a metre.

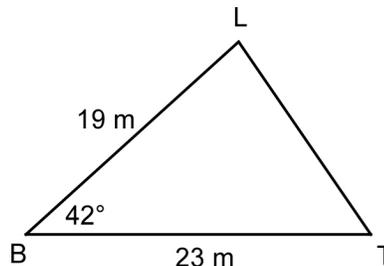
8.2 The Cosine Law

5. Find d , to the nearest tenth of a centimetre.



6. Solve each triangle. Round answers to the nearest tenth of a unit.

a)



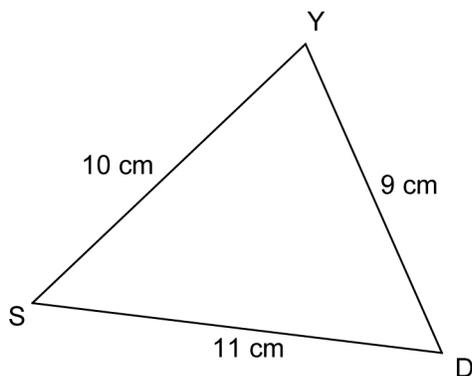
- b) In acute $\triangle RGM$, $\angle M = 78^\circ$, $r = 10$ cm, and $g = 13$ cm.

Name: _____

Date: _____

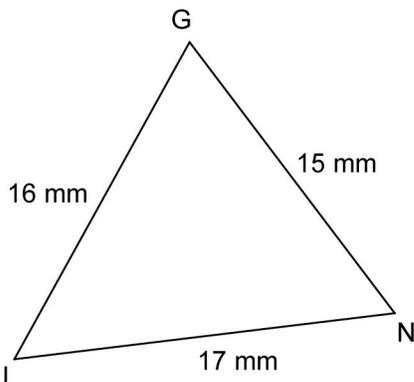
8.3 Find Angles Using the Cosine Law

7. Find the measure of $\angle S$, to the nearest degree.



8. Solve each triangle. Round answers to the nearest tenth of a degree.

a)



- b) In acute $\triangle BXR$, $b = 5.2$ cm, $x = 6.3$ cm, and $r = 7.1$ cm.

8.4 Solve Problems Using Trigonometry

9. Cara is standing in the centre of a field. From where she is standing, she can see four posts at different positions on the field, as shown in the diagram. How far apart are posts A and B, to the nearest tenth of a metre?

