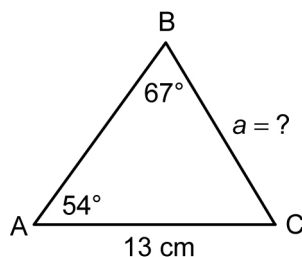


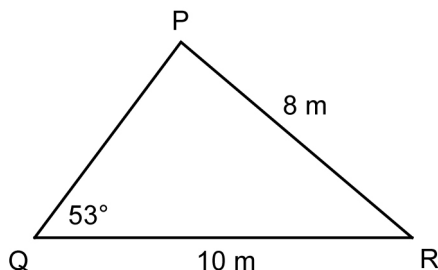
## Chapter 8 Review

### 8.1 The Sine Law

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

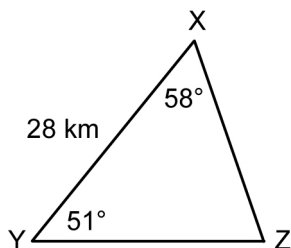


2. Find the measure of  $\angle P$ , to the nearest degree.



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

a)



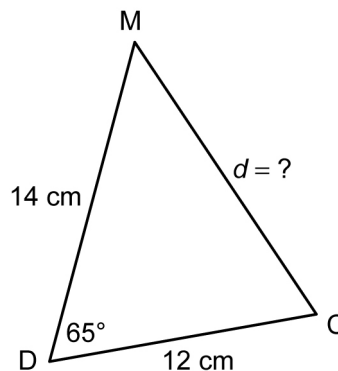
- b) In  $\triangle DEF$ ,  $\angle D = 73^\circ$ ,  $\angle E = 64^\circ$ , and  $d = 9.0\text{ m}$ .

4. Three trees are in the yard at the back of Aly's house. The oak tree is  $10\text{ m}$  from the ash tree and  $15\text{ m}$  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  $78^\circ$ .

- 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.

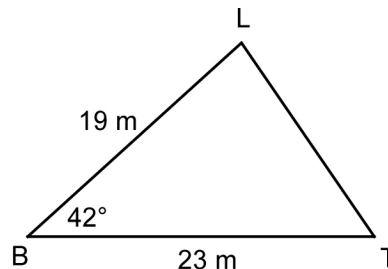
### 8.2 The Cosine Law

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



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

a)



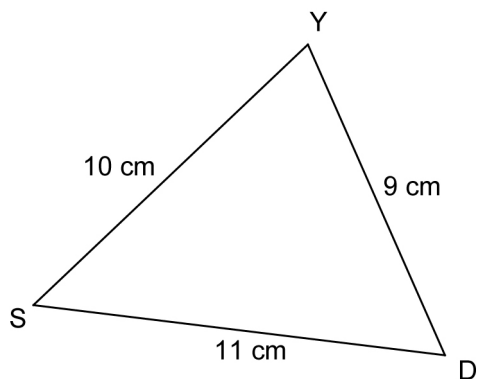
- b) In acute  $\triangle RGM$ ,  $\angle M = 78^\circ$ ,  $r = 10\text{ cm}$ , and  $g = 13\text{ cm}$ .

Name: \_\_\_\_\_

Date: \_\_\_\_\_

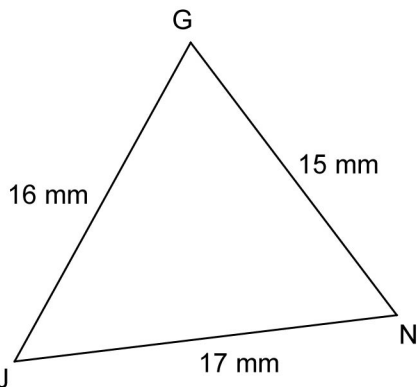
### 8.3 Find Angles Using the Cosine Law

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?

