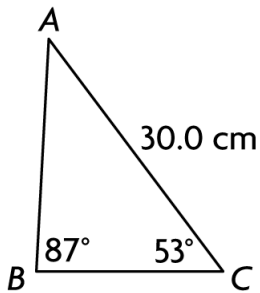
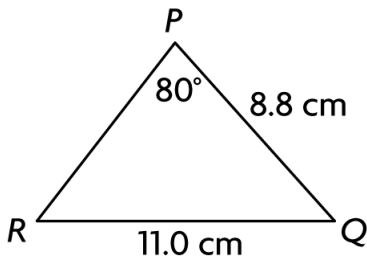


Trigonometry Practice Test

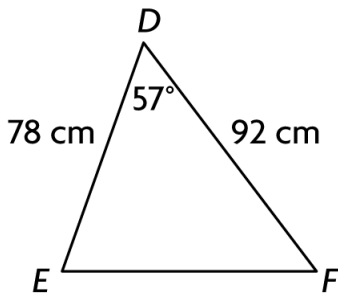
1. Determine the length of c to the nearest tenth of a centimetre.



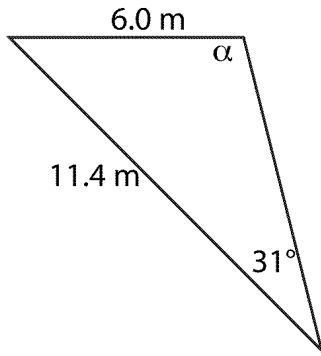
2. Determine the measure of $\angle R$ to the nearest degree.



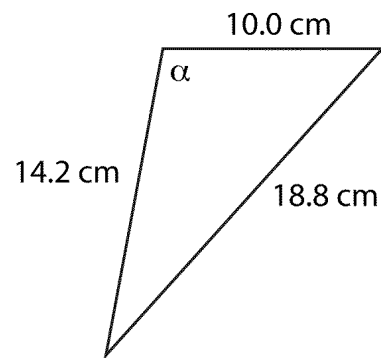
3. Determine the length of EF to the nearest centimetre.



4. Find angle α . Round to 2 decimal places.



5. Find angle α . Round to the nearest hundredth.



6. Write another sine ratio that is equivalent to $\sin 110^\circ$.
7. Write another term using the cosine ratio that is equivalent to $\cos 75^\circ$.
8. A radar operator on a ship discovers a large sunken vessel lying parallel to the ocean surface, 120 m directly below the ship. The length of the vessel is a clue to which wreck has been found. The radar operator measures the angles of depression to the front and back of the sunken vessel to be 55° and 46° . How long, to the nearest tenth of a metre, is the sunken vessel?
9. In $\triangle ABC$, $\angle A = 26^\circ$, $a = 8.5$ cm, and $b = 5.0$ cm. Determine the number of triangles (zero, one, or two) that are possible for these measurements. Draw the triangle(s) to support your answer.

10. In $\triangle XYZ$, $\angle Y = 29^\circ$, $x = 15.4$ m, and $y = 12.0$ m.

a) Determine the number of triangles (zero, one, or two) that are possible for these measurements. Draw the triangle(s) to support your answer.

b) Find the measure of all possible angles Z.