

MCR.3U

Reviewing the Trigonometry of Right Triangles

- $\sin \theta = \frac{\text{opposite}}{\text{hypotenuse}}$ $\cos \theta = \frac{\text{adjacent}}{\text{hypotenuse}}$ $\tan \theta = \frac{\text{opposite}}{\text{adjacent}}$
- To solve a right triangle, given one acute angle and one side,
 - a) find the third angle using the angle sum in a triangle
 - b) find the other two sides using the sine, cosine, and tangent ratios
- To solve a right triangle, given 2 sides,
 - a) find the measure of one angle using its sine, cosine, or tangent ratio
 - b) find the third angle using the angle sum in a triangle
 - c) find the third side using a trigonometric ratio or the Pythagorean Theorem
- To solve a right triangle, given two right triangles,
 - a) draw a clear diagram to display the given information
 - b) identify the two triangles involved and solve for missing information using the techniques above

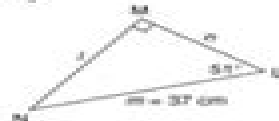


1. Solve each triangle. Round lengths to the nearest unit and angles to the nearest degree.

a)



b)



c)



d)



2. Solve each triangle. Round lengths to the nearest unit and angles to the nearest degree.

a)



b)



3. Find BC, to the nearest centimetre.



4. Find XY, to the nearest tenth of a centimetre.



5. Find PO, to the nearest tenth of a metre.



6. **Safety** To guard against falls, an extension ladder should make an angle of 75° or less with the ground. What is the maximum height that an 8-m ladder can reach safely?

7. **Paper** Fold a standard piece of binder paper (216 mm \times 279 mm) along one diagonal to form two identical triangles. Use trigonometry to find the measure of the angles in the triangles. Use a protractor to verify your results.

8. **Medicine** A patient is being treated with laser therapy to remove a tumour that is located behind a vital organ. The tumour is 5.7 cm below the skin. To avoid the organ, the entry point of the laser must be 12.4 cm above the tumour along the skin. What is the angle the doctor must use to hit the tumour directly?

9. **Aviation** A jet airplane begins a steady climb at 17° and flies for 5 km, measured along the ground. What is its change in altitude?

10. **Architecture** The city is designing a new multi-level parking garage. The floors are to be 4 m apart. The connecting ramps will be 22 m long. What is the angle of elevation for each ramp?

Students Guide To Exercises To Accompany Trigonometry Triangles And Functions

Mustafa A. Munem, James P. Yizze



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