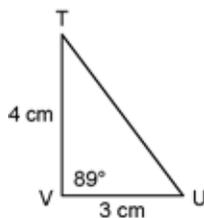


Chapter 4 Practice Test

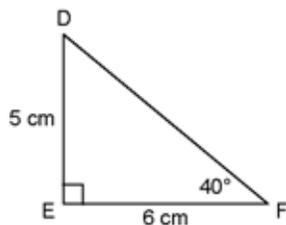
1. Which would you use to solve for TU?

A Pythagorean theorem
 B tangent law
 C cosine law
 D sine law

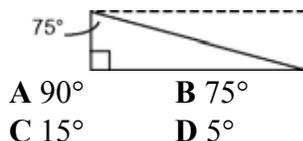


2. Which would you use to solve for DF?

A sine ratio, cosine ratio, Pythagorean theorem
 B sine ratio, cosine ratio, tangent ratio
 C sine ratio, tangent ratio
 D cosine ratio, tangent ratio

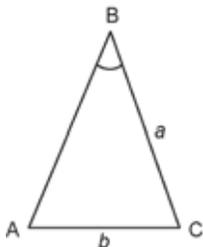


3. The angle of depression of the ramp is:



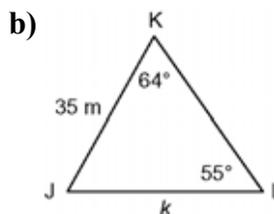
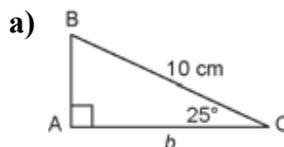
A 90° B 75°
 C 15° D 5°

4. Given a , b , and $\angle B$, what is the measure of angle A?

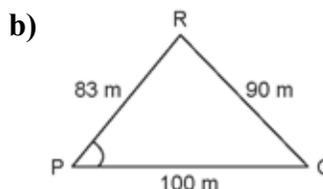
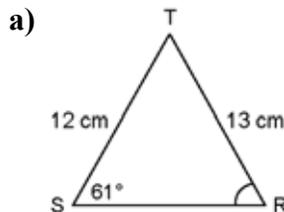


A $\cos^{-1}\left(\frac{a^2 + b^2}{2ab}\right)$
 B $\sin^{-1}\left(\frac{b \sin B}{a}\right)$
 C $\sin^{-1}\left(\frac{\sin A}{ab}\right)$
 D $\sin^{-1}\left(\frac{a \sin B}{b}\right)$

5. Find the length of the indicated side, to the nearest tenth of a unit.



6. Find the measure of the marked angle, to the nearest tenth of a degree.



7. Serena is standing at the top of a building, and Salim is standing 17 m from the base of the building, 1 m above ground. The distance from Serena to Salim is 50 m.

a) What is the angle of elevation from Salim to Serena?
 b) What is the height of the building?

8. Feng is flying a kite. The string is 25 m long. The kite became stuck at the top of a 9-m tall tree that leans to one side. The tree makes an angle of 85° with the ground. The handle of the kite is touching the ground and the string is tight. Calculate the angle of elevation from the kite handle to the top of the tree, to the nearest degree.