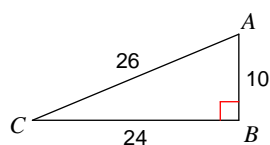


QUIZ (SAMPLE) - Lessons 13.1 thru 13.2

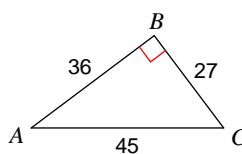
- 1) State the definitions of the Trigonometric Ratios (Sine, Cosine and Tangent) - include a diagram with accurate labelling.

Find the value of each trigonometric ratio to the nearest ten-thousandth.

2) $\sin C$

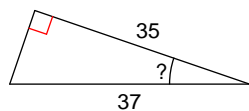


3) $\tan A$

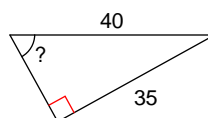


Find the measure of the indicated angle to the nearest degree.

4)

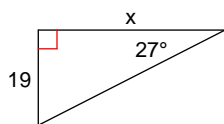


5)

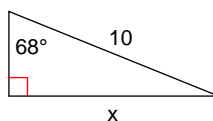


Find the missing side. Round to the nearest tenth.

6)



7)



- 8) Tucker is flying a kite directly over his buddy Connor, who is 125 meters away. His kite string makes a 39° angle with the ground. To the nearest meter, how high is the kite?
- 9) A lighthouse is observed by a ship's officer at a 42° angle to the path of the ship. At the next sighting, the lighthouse is observed at a 90° angle to the path of the ship. The distance traveled between sightings is 1800 m. To the nearest meter, what is the distance between the ship and the lighthouse at the second sighting?
- 10) A small plane takes off from an airport and begins to climb at an angle of 10° at 5000 ft/min. After 3 minutes, how far along the ground will the plane have flown.

Answers to QUIZ (SAMPLE) - Lessons 13.1 thru 13.2 (ID: 1)

- 1) Use SOH-CAH-TOA and write each as a fraction. Label a right triangle with O, A and H.
- 2) 0.3846
- 3) 0.7500
- 4) 19°
- 5) 61°
- 6) 37.3
- 7) 9.3
- 8) 101 meters
- 9) 1621 meters
- 10) 8507 feet