

Self-Check

Use the right triangle shown below to answer questions 1 - 5.

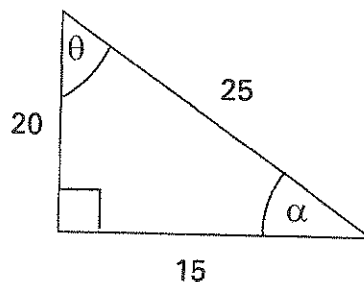
1. $\sin \theta =$ _____

2. $\cos \theta =$ _____

3. $\tan \alpha =$ _____

4. $\theta =$ _____

5. $\alpha =$ _____

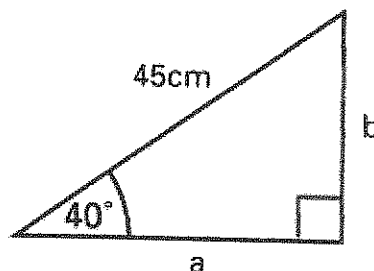


6. A certain right triangle has two sides of lengths $a = 14$ cm and $b = 20$ cm. What is the length of the hypotenuse?

Use the right triangle shown below to answer questions 7 and 8.

7. $a =$ _____

8. $b =$ _____



9. A surveyor wishes to determine the distance between two points A and B, but cannot make a direct measurement because a river intervenes. The surveyor steps off a line AC at 90° to AB and 264 meters long. With the transit at point C, the surveyor measures the angle between line AB and the line formed by C and B. Angle BCA is measured to be 62° . What is the distance from A to B?