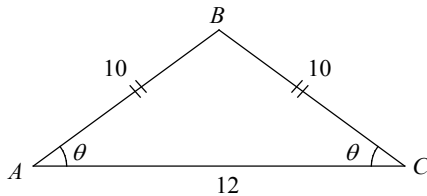


Exercises - Trigonometric Ratios of Acute Angles

Questions 1-3 refer to the following information.

In the triangle shown below $AB = BC = 10$ and $AC = 12$.



1

What is the value of $\cos \theta$?

- A) 0.4
- B) 0.6
- C) 0.8
- D) 1.2

2

What is the value of $\sin \theta$?

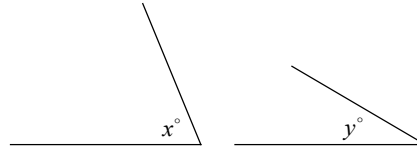
- A) 0.4
- B) 0.6
- C) 0.8
- D) 1.2

3

What is the value of $\tan \theta$?

- A) $\frac{3}{4}$
- B) $\frac{4}{3}$
- C) $\frac{5}{4}$
- D) $\frac{5}{3}$

4

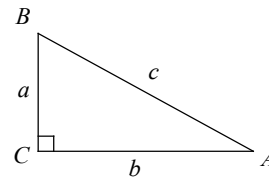


Note: Figures not drawn to scale.

In the figures above $y < x < 90$ and $\cos x^\circ = \sin y^\circ$. If $x = 3a - 14$ and $y = 50 - a$, what is the value of a ?

- A) 16
- B) 21
- C) 24
- D) 27

5



Given the right triangle ABC above, which of the following is equal to $\frac{a}{c}$?

- I. $\sin A$
 - II. $\cos B$
 - III. $\tan A$
- A) I only
 - B) II only
 - C) I and II only
 - D) II and III only