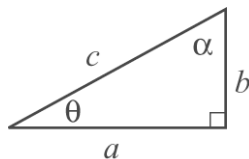


1 The hypotenuse of the right-angled triangle shown is:

- A b
- B θ
- C a
- D c
- E α



2 The value of $\sin 38^\circ$ correct to four decimal places is:

- A 0.6157
- B 0.7880
- C 0.2964
- D 0.616
- E 0.62

3 The value of $\cos 12^\circ$ correct to three decimal places is:

- A 0.98
- B 0.844
- C 0.897
- D 0.208
- E 0.978

4 The value of $\tan 42.5^\circ$ correct to two decimal places is:

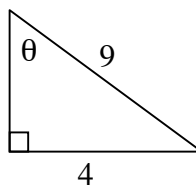
- A 0.916
- B -11.27
- C 0.6756
- D 0.92
- E 0.90

5 If $\tan x^\circ = \frac{3}{7}$ then the value of x° is closest to:

- A 66.8°
- B 23.20°
- C 81.87°
- D 0.007°
- E 232°

6 For the triangle shown you can write which of the following trigonometric ratios?

- A $\sin \theta = \frac{9}{4}$
- B $\cos \theta = \frac{9}{4}$
- C $\sin \theta = \frac{4}{9}$
- D $\cos \theta = \frac{4}{9}$
- E $\tan \theta = \frac{4}{9}$



7 For the diagram shown which of the following is true?

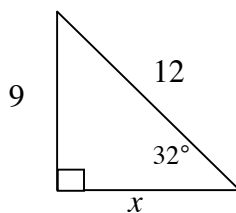
A $\sin 32^\circ = \frac{x}{12}$

B $\sin 32^\circ = \frac{9}{x}$

C $\cos 32^\circ = \frac{9}{12}$

D $\tan 32^\circ = \frac{x}{9}$

E $\cos 32^\circ = \frac{x}{12}$



8 The value of the angle θ in the following diagram is closest to:

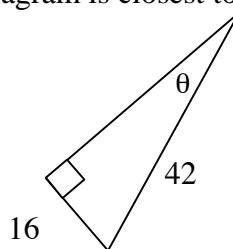
A 16.6°

B 22.4°

C 20.8°

D 26.6°

E 23°



9 If $\cos 35^\circ = \frac{2}{x}$ then x is equal to:

A $\frac{2}{\cos 35^\circ}$

B $\frac{\cos 35^\circ}{2}$

C $2 \cos 35^\circ$

D 1.638

E $\frac{2}{\sin 35^\circ}$

10 A 5.2-metre ladder is inclined at an angle of 32° to the horizontal. If the ladder is able to reach x metres up the wall, the value of x is:

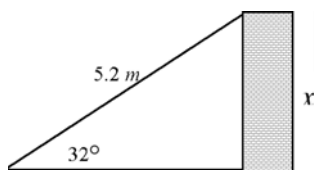
A $5.2 \cos 32^\circ$

B $\frac{5.2}{\sin 32^\circ}$

C $\frac{5.2}{\cos 32^\circ}$

D $5.2 \sin 32^\circ$

E $5.2 \tan 32^\circ$



Answers

- 1** D
- 2** A
- 3** E
- 4** D
- 5** B
- 6** C
- 7** E
- 8** B
- 9** A
- 10** D