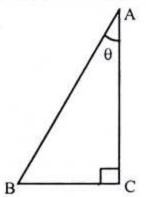
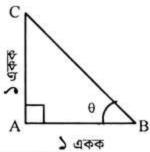
Chapter-9: Trigonometric Ratio



211. In the figure COSθ = what?

- (a) $\frac{AC}{AB}$ (b) $\frac{BC}{AB}$ (c) $\frac{AB}{BC}$ (d) $\frac{AB}{AC}$
- 212.



cosθ = what?

- 213. Which one is correct for the mutual relation of geometric ratios of acute angle?
 - (a) $\cot\theta = \frac{\sin\theta}{\cos\theta}$ (b) $\sin\theta = \frac{1}{\sec\theta}$
 - © $\tan\theta = \frac{\sin\theta}{\cos\theta}$ d $\cot\theta = \frac{1}{\cos\theta}$
- 214. If $\tan\theta = \frac{3}{4}$ then $\cos^2\theta = \text{what}$?

- (a) $\frac{16}{9}$ (b) $\frac{25}{16}$ (c) $\frac{16}{25}$ (d) $\frac{9}{16}$

- 215. Which one of the following law is correct?
 - (a) $tan^2\theta = 1 sec^2\theta$
 - (b) $\csc^2\theta \tan^2\theta = 1$
 - © $\sin^2\theta \cos^2\theta = 1$
 - $rac{1}{\cos e^{2} \theta} + \frac{1}{\sec^{2} \theta} = 1$

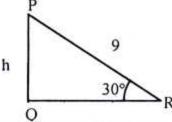
(ii)

- 216. If $\csc\theta + \cot\theta = \frac{5}{6}$ then $\csc\theta \cot \theta = \text{what}?$
 - (a) $\frac{1}{6}$ (b) $\frac{5}{6}$ (c) 1 (d) $\frac{6}{5}$

0

- 217. If $\sec\theta + \tan\theta = \frac{5}{2}$ then $\sec\theta \tan\theta =$ which?
 - (a) $\frac{5}{2}$ (b) $\frac{2}{5}$ (c) $\frac{5}{3}$ (d) $\frac{3}{5}$

0



- 218. In the figure which one of the following value for h?
 - (a) 4.5 cm
- (b) 6.3 cm
- © 7.8 cm
- @ 9.5 cm
- **6**
- 219. $sec^230^\circ cosec^290^\circ = which value?$

 - (a) $\frac{4}{3}$ (b) $\frac{2}{\sqrt{3}}$ (c) $\frac{1}{2}$ (d) $\frac{1}{3}$
- 0
- 220. If $cot(90^{\circ} \theta) = \frac{4}{3}$, then which one value is cosθ?
 - (a) $\frac{3}{5}$ (b) $\frac{3}{4}$ (c) $\frac{4}{3}$ (d) $\frac{5}{3}$

221. If
$$\cos\theta = \frac{1}{2}$$
, then $\tan\theta = \text{which}$ value?

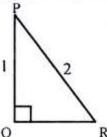
(a) 2 (b)
$$\sqrt{3}$$
 (c) $\frac{\sqrt{3}}{2}$ (d) $\frac{1}{2}$

$$0\frac{1}{2}$$

69

On the basis of the following information answer the question 226 and 227:

@ 1.56



222. For trigonometric relations—

i.
$$\cos^2\theta = 1 - \sin^2\theta$$

ii.
$$\sec^2\theta - \tan^2\theta = 1$$

iii.
$$\csc^2\theta = 1 - \cot^2\theta$$

Which one of the following is

∠BAC = 60°

iii. ∠ACB = 30°

(a) i, ii

∠BAC = ∠ACB = 45°

223.

i.
$$secP = cosecR$$
 ii. $cosP + secP = \frac{5}{2}$

iii.
$$tanR = \frac{1}{\sqrt{3}}$$

Which one of the following is correct?

- @ i & ii
- (b) i & iii
- © ii & iii
- @ i, ii & iii

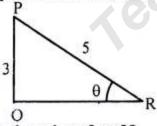
© ii, iii On the basis of the following information answer the question 224 and 225:

In the figure, if 2AB = BC, then—

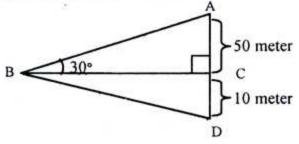
Which one of the following is correct?

(b) i, iii

@ i, ii & iii



On the basis of the following information answer the question 228 and 229:



224. What is the value of cosθ?

- (a) $\frac{3}{5}$ (b) $\frac{3}{4}$ (c) $\frac{4}{5}$ (d) $\frac{5}{4}$

225. Which one is the following value of

$$\frac{\tan^2\theta+1}{\sin^2\theta-1}$$
?

- $\odot 2.44$

- 228. AB = ?
 - (a) 25
- ⓑ 25√3
- © 100
- @ 100\square

229. BD = ?

- 76.60 (Approx)
- 86.02 (Approx)
- © 87.18 (Approx)
- @ 186.60 (Approx)