

Name \_\_\_\_\_

Date \_\_\_\_\_

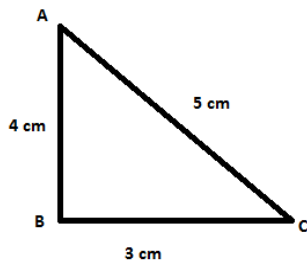


Fig. 1

1. In fig. 1, the value of  $\cos A$  is

- A.  $3/5$
- B.  $4/5$
- C.  $5/4$
- D.  $5/3$

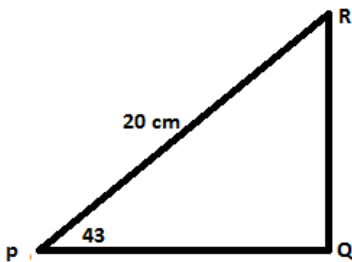


Fig. 2

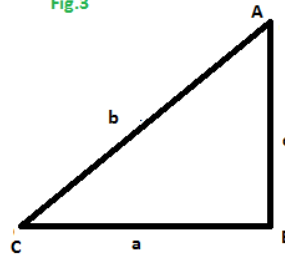
2. In fig. 2, the length of RQ is

- A.  $20/\sin 43$
- B.  $20 \cos 43$
- C.  $20 \sin 43$
- D.  $20/\cos 43$

3. Which of the following is correct?

- A.  $a^2 = b^2 + c^2 - 2ab \cos A$
- B.  $b^2 = a^2 + c^2 - 2abc \cos B$
- C.  $2bcc \cos A = b^2 + c^2 + a^2$
- D.  $2ab \cos C = a^2 + b^2 - c^2$

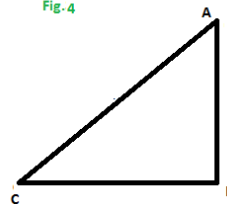
Fig.3



4. Which of the following is correct for the triangle show in fig 3?

- A.  $b/\sin B = \sin C/c$
- B.  $a \sin B = b \sin A$
- C.  $ac = \sin A \sin C$
- D.  $\sin B/\sin A = ab$

Fig.4



5. In fig 4, if  $\cos C = 6/10$  then  $\tan A$  is

- A.  $8/6$
- B.  $6/8$
- C.  $6/10$
- D.  $8/10$

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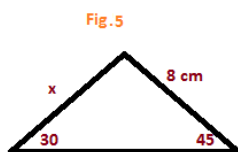
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6. The angle of elevation from a point P on level ground to the top of a building is 42 degrees. If the building is 53 m tall, then the distance of P from the foot of the building in metres is

- A.  $53 \tan 42$
- B.  $53/\sin 42$
- C.  $53 \sin 42$
- D.  $53/\tan 42$

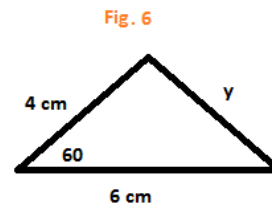
7. W is a point 37m from the foot of a tower. If the angle of depression of Z from the top of the tower is Q degrees, then the height of the tower in metres is

- A.  $37 \tan Q$
- B.  $37/\tan Q$
- C.  $37 \cos Q$
- D.  $37/\cos Q$



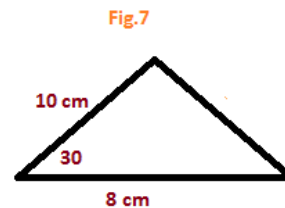
8. The value of x in Fig 5 is

- A.  $40/\sqrt{2}$
- B.  $8\sqrt{2}$
- C.  $\sqrt{2}/8$
- D.  $40\sqrt{2}$



9. The value of  $y^2$  in fig 6 is

- A. 40
- B. 28
- C. 26
- D. 14



10. The area, in square cm, of the triangle show in fig 7 is

- A. 80
- B. 20
- C. 40
- D.  $80\sin 60$