

## **BIRLA DIVYA JYOTI**

Class and Sec:
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Subject: Mathematics
Ch: Introduction To Trigonometry
Worksheet: 1 Of 1

Name: Roll No:

- 1. In  $\triangle$  ABC, right-angled at B, AB = 24 cm, BC = 7 cm. The value of tan C is:
- (a)12/7
- (b)24/7
- (c)20/7
- (d)7/24
- 2. If cos X=a/b, then sin X is equal to:
- $(a)b^2-a^2/b$
- (b)b-a/b
- $(c)\sqrt{(b^2-a^2)/b}$
- $(d)\sqrt{(b-a)/b}$

- 3. (Sin 30°+cos 60°)-(sin 60° + cos 30°) is equal to:
- (a)0
- (b)1+2 $\sqrt{3}$
- (c)1- $\sqrt{3}$
- $(d)1+\sqrt{3}$
- 4. 2tan 30°/1+tan<sup>2</sup>30° =
- (a)Sin 60°
- (b)Cos 60°
- (c)Tan 60°
- (d)Sin 30°

5. In right triangle ABC, right angled at C, if $tan A = 1$ , then the value of 2 $sin A cos A$ is
(a) 0
(b) 1
(c) - 1
(d) 2
6. Given that $\sin A=1/2$ and $\cos B=1/\sqrt{2}$ then the value of $(A + B)$ is:
(a) 30°
(b) 45°
(c) 75°
(d) 15°
7. The study of relationships between the sides and angles of a triangle is —-
A. Statistics
A. Statistics B. Trigonometry
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A. Statistics B. Trigonometry C. Geometry  8. If tan A = 4/3 and sin A = 4/5 then cos A = A. 4/5 B. 3/5 C. 3/4  9. Which of the following is true?  A. sec A = 12/5 for some value of angle A. B. The value of tan A is always less than one.
<ul> <li>A. Statistics</li> <li>B. Trigonometry</li> <li>C. Geometry</li> <li>8. If tan A = 4/3 and sin A = 4/5 then cos A =</li> <li>A. 4/5</li> <li>B. 3/5</li> <li>C. 3/4</li> <li>9. Which of the following is true?</li> <li>A. sec A = 12/5 for some value of angle A.</li> <li>B. The value of tan A is always less than one.</li> <li>C. cot A is the product of cot and A.</li> <li>10. The values of the trigonometric ratios of an angle with the lengths of the sides of the triangle,</li> </ul>

- 11. The value of sec A or cosec A is always ————
- A. Less than or equal to one
- B. Greater than or equal to one
- C. Equal to one
- 12. If x tan  $45^{\circ}$  sin  $30^{\circ}$  = cos  $30^{\circ}$  tan  $30^{\circ}$ , then x is equal to

- (b) 1/2 (c) 1/√2 (d) 1

- 13. If  $\sin \theta + \sin^2 \theta = 1$ , then  $\cos^2 \theta + \cos^4 \theta = ?$
- (a) -1
- (b) 0 (c) 1 (d) 2