

ECAT Mathematics Chapter 14 Application of Trigonometry Online Test

Sr	Questions	Answers Choice
1	Question Image	A. The law of sines B. The law of cosines C. The law of tangents D. None of these
2	Question Image	
3	Question Image	
4	If a, b, c are the measures of the sides of a triangle then	
5	If $\cos \theta = 0$, then $\theta =$ _____	A. $n\pi$ B. $(2n + 1)\pi$ C. $(2n - 1)\pi$ D. $(4n + 1)\pi$
6	The angle of elevation of the tops of two towers at the middle point of the line joining the foots of the tower are 60° and 30° respectively. The the ratio of the heights of the tower is	A. 2 : 1 B. 3 : 1 C. 1 : 2 D. 1 : 3
7	Question Image	
8	If sides of $\triangle ABC$ are 16, 20, and 33, then the value of the greatest angle is	A. 150° B. 132° C. 101° D. 160°
9	The angles of elevation of the top of a tower at the top and the foot of a pole of height 10 m are 30° and 60° respectively. The height of the tower is	A. 10 m B. 15 m C. 20 m D. None of these
10	If $\theta = 60^\circ$ then	A. $\sin \theta = \frac{1}{2}$ B. $\tan \theta = \cot 30^\circ$ C. $\sin \theta = \frac{1}{2}$ D. $\tan \theta = \cot 30^\circ$

$\text{rgb}(255, 255, 248); ><i>\pi</i>/4$
 D. sec><i>\theta</i>= 4

11	A chimney is such that on walking towards it 50 m in a horizontal line through its base the angular elevation of its top changes from 30° to 45° . The height of the chimney is	
12	Question Image	A. The law of cosines B. The law of sines C. The law of tangents D. None of these
13	The angle AOP which the ray from an observer's eye at O to an object at P at a lower level makes with horizontal ray OA through O is called the	A. Angle of depression B. Angle of elevation C. Acute angle D. Obtuse angle
14	Question Image	
15	The angle of elevation of a tower from a point A due south of it is x and from a point B due east of A is y . If $AB = 1$, then the height h of the tower is given by	
16	The law of tangents is _____	
17	E-radius corresponding to $\angle A$ is	
18	A circle which touches one side of a triangle externally and the other two sides produced is called	A. In-circle B. Circumcircle C. e-circle D. Point circle
19	The law of cosines is	
20	A circle drawn inside a triangle and touching its sides is called	A. In-circle B. Circum circle C. Escribed circle D. None of these