

ECAT (Pre-Eng) Mathematics Chapter 12 Trigonometric Functions and Identities

Sr	Questions	Answers Choice
1	The value of $7\pi/9$ in terms of degrees is	A. 150° B. 130° C. 135° D. 140°
2	$56^\circ = \dots\dots\dots$ radians	A. 1.25 B. 2.56 C. 95 D. 0.98
3	21.256°	A. $21^\circ 15' 21''$ B. $21^\circ 20' 56''$ C. $21^\circ 25' 1''$ D. $21^\circ 25' 6''$
4	the value of $25\pi/36$ in degrees is	A. 120° B. 125° C. 60° D. 115°
5	The value of 300° in term of π is	A. $5\pi/3$ B. $2\pi/3$ C. $5\pi/2$ D. 5π
6	If $\cos\theta = 9/41$ and $\sin\theta < 0$, the $\tan\theta =$	A. $41/9$ B. $-40/9$ C. $9/10$ D. $3/20$
7	radian is the measure of the angle subtended out the centre of the circle by an are, whose length is equal to the	A. radius of the circle B. circumference C. are length D. tangent of the circle E. none of these
8	The circle with are 60 cm^2 has an arc 8 cm long. The angle that is subtended at the centre of the circle by the are is	A. 1.83 radians B. 2.1 radians C. 1.05 radians D. 1.25 radians
9	The value of $2\pi/3$ in degree is	A. 120° B. 160° C. 150° D. 60°
10	If $\sin\theta = 12/13$, and $\sin\theta > 0$, then $\tan\theta =$	A. $2/5$ B. $12/13$ C. $13/5$ D. $12/5$
11	Express $\cos 320^\circ$ between 0° and 45°	A. $\cos 45^\circ$ B. $\cos 30^\circ$ C. $-\cos 40^\circ$ D. $\cos 40^\circ$
12	$16^\circ 30' =$	A. 16.5° B. 16.2° C. 16.60° D. 19.9°
13	$3/\pi = \dots\dots\dots$	A. 54.71 B. 21 C. 51 D. 29
14	$56^\circ = \dots\dots\dots$ radians	A. 1.25 B. 2.56 C. 95 D. 0.98
15	Express $\cos 320^\circ$ between 0° and 45°	A. $\cos 45^\circ$ B. $\cos 30^\circ$ C. $-\cos 40^\circ$ D. $\cos 40^\circ$

D. $\cos 40^\circ$

16	if $\tan\theta = 8/15$ and $\cos\theta < 0$, then $\csc\theta =$	A. $-8/15$ B. $15/8$ C. $3/15$ D. $-17/8$
17	The area of a sector of a circular region of radius r is	A. $2\pi r$ B. πr^2 C. $\frac{1}{2}\pi r^2$ D. $\pi/6$
18	The value of 150° in term of π is	A. $2\pi/5$ B. $5\pi/2$ C. $3\pi/2$ D. $2550/32401\pi$
19	$154^\circ 20' =$	A. $2550/34401\pi$ B. $27721/22400\pi$ C. $2521/32400\pi$ D. $4125/32400\pi$
20	If $\sin\theta = 12/13$, and $\sin\theta > 0$, then $\tan\theta =$	A. $2/5$ B. $12/13$ C. $13/5$ D. $12/5$