

ECAT Pre General Science Mathematics Online Test

Sr	Questions	Answers Choice
1	With usual notations $b^2 = a^2 + c^2 - 2ac \cos$ is called_____;	A. None of these B. Law of sines C. Law of cosines D. Law of tangents
2	Question Image	
3	If $ab > 0$ and $a < 0$, which of the following is negative?	A. b B. $-b$ C. $-a$ D. $(a - b)^2$
4	A coin is tossed. If head comes up, a die is thrown but if tail comes up, the coin is tossed again. The probability of obtaining a head and an even number is	A. $1/8$ B. $2/8$ C. $3/8$ D. None of these
5	Question Image	
6	If x, y are two positive distinct numbers then	A. $A > G > H$ B. $A < G < H$ C. $A = G = H$ D. None of these
7	Question Image	
8	Question Image	
9	Question Image	
10	Question Image	A. $(1, 3)$ B. $(-1, -3)$ C. $(1, -3)$ D. $(-1, 3)$
11	$120^\circ =$ _____	
12	Question Image	B. $\tan 3x + c$ C. $\cot 3x + c$ D. $-\cot 3x + c$
13	The graph of a linear function is	A. a circle B. triangle C. a straight line D. none of these
14	$\tan 294^\circ =$ _____;	A. $\tan 24^\circ$ B. $-\tan 24^\circ$ C. $\cot 24^\circ$ D. $-\cot 24^\circ$
15	A box containing 10 mangoes out of which 4 are rotter. Two mangoes are taken together from the box. If one of them is found to be good, the probability that the other is also good is	A. $1/3$ B. $8/15$ C. $5/13$ D. $5/9$
16	The statement that a group can have more than one identity elements is	A. True B. False C. Ambiguous D. Some times true
17	The set $\{1, -1, i, -i\}$ form a group under	A. Addition B. Multiplication C. Subtraction D. None
18	Question Image	
19	If the sum of co-efficient in the expansion of $(a+b)^n$ is 4096, then the greatest co-efficient in the expansion is	A. 1594 B. 792 C. 924 D. 2924

If a, b, c are sides of a triangle taken in order then $a \times b =$

- A. $c \times a$
- B. $b \times a$
- C. $c \times a$
- D. Both a & b