

Mathematics General Science Test Medium Mode

Sr	Questions	Answers Choice
1	$f(x) = 3x/x^2 + 1$ is:	A. an even function B. an odd function C. an even and implicit function D. neither even nor a odd
2	The distance of point P(x,y) from focus in a parabola $y^2 = 4ax$, is:	A. 2a B. a C. x + a D. x-a
3	Question Image	A. 1 B. 2 C. -1 D. 0
4	$f(x) = 2^x + 3 \cdot 2^{2x} + 5$ is	A. trigonometric function B. algebraic function C. exponential function D. logarithmic function
5	The set $\{1, -1, i, -i\}$ form a group under	A. Addition B. Multiplication C. Subtraction D. None
6	Question Image	A. 30° B. 45° C. 60° D. 90°
7	The point which is closet to the focus of a parabola is:	A. vertex B. Chord C. Focus D. Directrix
8	If circumference of circle is divided into 360 congruent parts the angle subtended by one part at the centre of circle is	A. 1 degree B. 1 second C. 1 minute D. 1 radian
9	The number of arbitrary constants in the general solution of a differential equation is equal to the different equation	A. Order B. Degree C. Variables D. All are correct
10	Question Image	
11	Question Image	B. 0 C. 1 D. undefined
12	Question Image	
13	If the terminal rays of an angle falls on any axis then the angle is called	A. Allied angle B. Acute angle C. Standard position D. Quadrantal angle
14	Number of conics is	A. 1 B. 3 C. 2 D. 4
15	In-radius is denoted by	A. r B. η C. r_2 D. R
16	The set $\{0, -1\}$ hold closure property under	A. Addition B. Both a & c C. Multiplication D. None of these
		A. $\pi/3$ B. $\pi/2$ C. π D. $3\pi/2$

17 The principal value of $\sin^{-1}(-1/2)$

- B. $\pi/4$
- C. $\pi/6$
- D. $-\pi/6$

18 Question Image

19 Question Image

20 Every real number is

- A. A complex number
- B. A rational number
- C. A natural number
- D. A prime number