

Mathematics General Science Test Hard Mode

Sr	Questions	Answers Choice
1	The conic is a parabola if	A. $e < 1$ B. $e > 1$ C. $e = 1$ D. $e = 0$
2	The graph of a quadratic function is	A. Circle B. Ellipse C. Parabola D. Hexagon
3	Question Image	A. An irrational number B. Whole number C. A positive integer D. A rational number
4	If $Z = (1,2)$, then $Z^{-1} = ?$	A. (0.2, 0.4) B. (-0.2, 0.4) C. (0.2, -0.4) D. (-0.2, -0.4)
5	If α and β be irrational roots of a quadratic equation, then	
6	$\sin x + \cos x = 1$ $x =$	
7	Question Image	
8	Question Image	
9	If the diagonal of a square has coordinates (1, 2) and (5,6) the length of a side is	A. 3 B. 4 C. 1 D. 5
10	Question Image	D. None of these
11	$\sin(a + b) + \sin(a - b) =$	A. $\sin a \cos b$ B. $\sin a \sin b$ C. $\sin a + \cos b$ D. $\sin a - 2 \cos b$
12	Question Image	A. 1 B. 0 C. -2 D. 3
13	Question Image	
14	The multiplicative inverse of x such that $x = 0$ is	A. $-x$ B. does not exist C. $1/x$ D. 0
15	Question Image	
16	In which quadrant is the solution of the equation $\sin x - 1 = 0$	A. II quadrants B. II and III quadrants C. III and IV quadrants D. I quadrant
17	If $2 \sin x \cos 2x = \sin x$ then?	
18	Which is an explicit function	D. All
19	Question Image	
20	If A and B are matrices such that $AB=BA=I$ then	A. A and B are multiplicative inverse of each other B. A and B are additive inverses of each other C. A and B are singular matrices D. A and B are equal