

GAT Subject Mathematics Mathematics

Sr	Questions	Answers Choice
1	For any set X , $X \cup X$ is	A. 15 B. $15i$ C. $-15i$ D. -15
2	What is the conjugate of $-7 - 2i$?	A. $-7 + 2i$ B. $7 + 2i$ C. $7-2i$ D. $\sqrt{53}$
3	If $Z_1 = \sqrt{-36}$, $Z_2 = \sqrt{-25}$, $Z_3 = \sqrt{-16}$, then what is the sum of Z_1 , Z_2 and Z_3 ?	A. $\sqrt{3} i$ B. $\sqrt{7}$ C. $-2-1$ D. $\sqrt{5}$
4	If $Z_1 = 1+i$, $Z_2 = 2+3i$, then $ Z_2-Z_1 =?$	A. $\sqrt{3} i$ B. $\sqrt{7}$ C. $-2-1$ D. $\sqrt{5}$
5	If $Z = (1,2)$. tjem $Z^{-1} = ?$	A. $(0.2, 0.4)$ B. $(-0.2, 0.4)$ C. $(0.2, -0.4)$ D. $(-0.2, -0.4)$
6	The value of x , and y , when $(x+iy)^2=5+4i$	A. $X=2, y=-1$ B. $X=-2, y=1$ C. $X=2, y=-i$ D. $X=2, y=2$
7	$\pi/3$ is	A. A positive integer B. A negative integer C. A natural number D. An irrational number
8	Every prime number is also	A. Rational number B. even number C. Irrational number D. multiple of two numbers
9	$3/2$ is	A. An irrational number B. Whole number C. A positive integer D. A rational number
10	$\sqrt{23}$ is	A. A rational number B. A irrational number C. An even integer D. A factor of 36
11	6 is	A. A prime integer B. An irrational number C. A rational number D. A odd integer
12	0 (zero) is	A. A irrational number B. A rational number C. A negative integer D. A positive number