

- (c) (-1,0)
- (d) (2,3) athongo /// mathongo /// mathongo /// mathongo ///
- **Q5.** If the equation $|\sin x|^2 + |\sin x| + 6 = 0$ has 2 distinct roots in $[0, \pi]$ then the number of integers in the range of 6 is equal to
- **Q6.** If the equation $x^4 + kx^2 + k = 0$ has exactly two distinct real roots then the smallest integral value of $|\mathbf{k}|$.
- Q7. Consider the equation $(x^2 + x + 1)^2 (m 3)(x^2 + x + 1) + m = 0$ where m is real. Find number of positive integral values of m for which equation has 2 distinct real roots.
 - /// mathongo /// mathongo
 - /// mathongo /// mathongo
 - ///. mathongo ///. mathongo ///. mathongo ///. mathongo ///.
 - ///. mathongo ///. mathongo
 - ///. mathongo ///. mathongo ///. mathongo ///. mathongo ///. mathongo
 - /// mathongo /// mathongo /// mathongo /// mathongo