Q1. If n is an odd integer then $(1+i)^{6n} + (1-i)^{6n}$ is equal to (a) 0 (b) 2 (c) -2**Q2.** If $a + ib = \sum_{k=0}^{101} i^{k}$ then (a,b) equals (a)(0,1)(b)(0,0)(c)(0,-1)(d)(1,1)**Q3.** The smallest positive integer n for which $\frac{(1+i)^n}{(1-i)^{n-2}}$ is a real number. (a) 2 (b) 1 (c) 3**Q4.** If one root of the equation $z^2 + (a+i)z + b + ic = 0$ be real when $a, b \in R$ then $c^2 + b - ac =$ (d) none