Q1. If $\left|z^2-1\right|=\left|z\right|^2+1$ then z lies on a

(a) circle

(b) parabola

(c) ellipse

(d) none

Q2. Find the number of solutions of the equation $z^2+\bar{z}=0$

(a) 1

(b) 2

(c) 3

(d) 4

Q3. The number of complex numbers z which satisfy $z^2+2\left|z\right|^2=2$

(a) 0

(b) 2

(c) 3

(d) 4