Solution (#35) (i) $z^2 + 2\bar{z} = 2$ has solutions

$$1+i$$
, $1-i$, $\sqrt{3}-1$ $-\sqrt{3}-1$.

- (ii) $z^2 + i\bar{z}^2 = 1$ has no solutions. (iii) $z^4 = 8\bar{z}$ has solutions 0, 2, -2. (iv) $1 = z^2 \bar{z}^2$ has no solutions.