Q. No.	DAY - 10
50	**Example 2.13** If $\|z\| = 2$ show that $3 \le \|z + 3 + 4i\| \le 7$
51	**Example 2.14** Show that the points 1, $\frac{-1}{2} + i\frac{\sqrt{3}}{2}$, and $\frac{-1}{2} - i\frac{\sqrt{3}}{2}$ are the vertices of an equilateral triangle.
52	**Example 2.15** Let $z_1, z_2,$ and z_3 be complex numbers such that $\|z_1\| = \|z_2\| = \|z_3\| = r > 0$ and $z_1 + z_2 + z_3 \neq 0$ Prove that $\left\|\frac{z_1 z_2 + z_2 z_3 + z_3 z_1}{z_1 + z_2 + z_3}\right\| = r$.
53	**Example 2.16** Show that the equation $z^2 = \bar{z}$ has four solutions.
54	**Example 2.17** Find the square root of $6 - 8i$.

55

EXERCISE 2.5

2. For any two complex numbers z_1 and z_2, such that $|z_1| = |z_2| = 1$ and $z_1 z_2 \neq -1$, then show that $\dfrac{z_1 + z_2}{1 + z_1 z_2}$ is a real number.