

## Shifting the Origin in Case of Complex Numbers.

Let  $O$  be the origin and  $P$  be a point with affix  $z_0$ . Let a point  $Q$  has affix  $z$  with respect to the co-ordinate system passing through  $O$ .

When origin is shifted to the point  $P(z_0)$  then the new affix  $Z$  of the point  $Q$  with respect to new origin  $P$  is given by  $Z = z - z_0$  i.e., to shift the origin at  $z_0$  we should replace  $z$  by  $Z + z_0$ .

