## EXTRA WORK SHEET ON FORMATION OF POLYNOMIAL FROM ZEROES

1.Find the sum and product of the roots for each of the following quadratic equations :
(i) $x^{2}+8 x-65=0$
(ii) $2 x^{2}+5 x+7=0$
(iii) $k x^{2}-k^{2} x-2 k^{3}=0$
2.Form an quadratic polynomial whose roots are 2 , and $-1 / 2$.
3.Find the quadratic polynomial with rational coefficients which has $\frac{1}{3+2 \sqrt{2}}$ as a root.
4. What is an equation whose roots are $5+\sqrt{2}$ and $5-\sqrt{2}$
5.Write down the quadratic equation in general form for which sum and product of the roots are given below.
(i) 9,14
(ii) $-7 / 2,5 / 2$
(iii) $-3 / 5,-1 / 2$

