



## Assignment questions based upon online class

### Maths homework (X)

1. Form a quadratic polynomial whose zeroes are as follows :

(i)  $-5, 4$  (ii)  $2, \frac{1}{2}$  (iii)  $\sqrt{3}, -\sqrt{3}$  (iv)  $\frac{-2}{3}, \frac{3}{4}$  (v)  $3 + \sqrt{5}, 3 - \sqrt{5}$  (vi)  $\sqrt{2}, -5$ .

2. Form a quadratic polynomial each with the given numbers as the sum and product of its zeroes respectively.

(i)  $6, -3$  (ii)  $\frac{5}{6}, -2$  (iii)  $\sqrt{3}, \frac{1}{2}$  (iv)  $-2, 5\sqrt{6}$  (v)  $3, 0$ .

3. Form a quadratic polynomial  $p(x)$  with 3 and  $\frac{-2}{5}$  as sum and product of its zeroes, respectively.

4. For each of the following, find a quadratic polynomial whose sum and product respectively of the zeroes are as given. Also find the zeroes of these polynomials :

(i)  $\frac{-8}{3}, \frac{4}{3}$  (ii)  $\frac{21}{8}, \frac{5}{16}$  (iii)  $-2\sqrt{3}, -9$  (iv)  $\frac{-3}{2\sqrt{5}}, \frac{-1}{2}$ .

5. Find a quadratic polynomial, the sum and product of whose zeroes are 6 and 9 respectively. Hence, find the zeroes.