X MATHEMATICS, POLYNOMIALS,WS 1

1)If $p(x)= 3x^3 - 2x^2 + 6x - 5$,find p(2).

2)Find the quadratic polynomial whose zeroes are $2+ \sqrt{3}$ and $2- \sqrt{3}$.

3)Find the zeroes of the polynomial $mx^2 + (m + n) x + n$.

4)If 2 and -3 are the zeroes of the polynomial $x^2 + (a + 1) x + b$,then find the value of a and b.

5)Find all the zeroes of the polynomial $2x^3 - x^2 - 5x - 2$,if two of its zeroes are -1 and 2.

6)If the product of zeroes of the polynomial $ax^2 - 6x - 6$ is 4 , find the value of 'a'.

7)Find a polynomial whose zeroes are 2 and -3.

8)Find the zeroes of the quadratic polynomial $6x^2 - 7x - 3$,and verify the relationship between the zeroes and the co-efficients .

9)If one zero of the quadratic polynomial $x^2 + 3 x + k$ is 2, find the value of k.

10)If α and β are zeroes of the quadratic polynomial
$x^2 - (k + 6) x + 2(2k - 1)$.Find the value of k if $\alpha + \beta = \frac{1}{2} \alpha \beta$.

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