

CLASS –X

Maths

Date:-29/04/2020

CHAPTER 2 –POLYNOMIALS

- Watch the online videos “POLYNOMIALS -Lecture 6& 7 ” from Optimum Online E-Learning Platform and try to comprehend the concepts of Division algorithm . After that try to solve the questions given in your assignment.
 - Lecture No. 06
 - Lecture No.07
1. Apply division algorithm to find the quotient $q(x)$ and remainder $r(x)$ on dividing $f(x)$ by $g(x)$ in each of the following:
 - i. $f(x) = x^3 - 6x^2 + 11x - 6, g(x) = x^2 + x + 1$
 - ii. $f(x)=10x^4 + 17x^3 - 62x^2 + 30x - 3, g(x) = 2x^2 + 7x + 1$
 - iii. $f(x)=4x^3 + 8x^2 + 8x + 7, g(x)2x^2 - x + 1$
 - iv. $f(x) = 15x^3 - 20x^2 + 13x - 12, g(x) = x^2 - 2x + 2$
 2. Check whether the first polynomial is a factor of the second polynomial by applying the division algorithm:
 - i. $g(t)=t^2 - 3; f(t) = 2t^4 + 3t^3 - 2t^2 - 9t - 12$
 - ii. $g(x)=x^3 - 3x + 1; f(x) = x^5 - 4x^3 + x^2 + 3x + 1$
 - iii. $g(x)= 2x^2 - x + 3; f(x) = 6x^5 - x^4 + 4x^3 - 5x^2 - x - 15$
 3. Obtain all zeroes of the polynomial $f(x)=2x^4 + x^3 - 14x^2 - 19x - 6$, if two of its zeroes are -2 and -1.
 4. Obtain all zeroes of $f(x)=x^3 + 13x^2 + 32x + 20$, if one of its zeros is -2.
 5. Obtain all zeroes of the polynomial $f(x) = x^4 - 3x^3 - x^2 + 9x - 6$, if the two of its zeroes are $-\sqrt{3}$ and $\sqrt{3}$.
 6. . Obtain all zeroes of the polynomial $f(x)=2x^4 - 2x^3 - 7x^2 + 3x + 6$, if the two of its zeroes are $-\sqrt{3/2}$ and $\sqrt{3/2}$.
 7. Find all the zeroes of the polynomial $x^4 + x^3 - 34x^2 - 4x + 120$,if the two of its zeros are 2 and -2.

****Link of Optimum Online E-Learning Platform:- www.optimumschool.net/online**
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