

DELHI PUBLIC SCHOOL, JAMMU
SESSION 2019-20
SUBJECT: MATHEMATICS
ASSIGNMENT
TOPIC- POLYNOMIALS

1. Find zeroes of the quadratic polynomial $2x^2-50$?
2. Find a quadratic polynomial whose product and sum of zeroes are $-13/5$ and $3/5$, respectively.
3. Find the nature of the zeroes of the quadratic polynomial $x^2+99x+127$.
4. Obtain all the zeroes of the polynomial $x^4+4x^3-2x^2-20x-15$ if two of its zeroes are $\sqrt{5}$ and $-\sqrt{5}$.
5. Divide $2x^4-9x^3+5x^2+3x-8$ by x^2-4x-1 and verify division Algorithm.
6. Given that the equation $12x^3-4x^2-5x+2$ has two equal zeroes, find all the zeroes.
7. If α and β are the zeroes of the $2x^2-5x+7$, then find a polynomial whose zeroes are $2\alpha+3\beta, 3\alpha+2\beta$
8. Find the zeroes of the following quadratic polynomials and verify the relationship between the zeroes and the coefficients.
 9. x^2-2x-8
 10. $4x^2-4x+1$
11. Divide $2x^2+3x+1$ by $x+2$.