VIDYA SHREE ACADEMY
SR. SEC. SCHOOL
An English Medium Co.Ed. School | Science & Commerce

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VSA
A Real English Medium School

Little Steps
Pre Primary wing of VSA

Class – 10th   **Chapter-3**   **Subject Maths**

Worksheet-04   **Polynomials**   **Date:__ /__ /__**

Find the zeroes of the following quadratic polynomials and verify the relationship between the zeroes and the coefficients.

1. $x^2 - 2x - 8$
2. $4s^2 - 4s + 1$
3. $6x^2 - 3 - 7x$

Find a quadratic polynomial each with the given numbers as the sum and product of its zeroes respectively. (Q4 to Q6)

4. $\frac{1}{4}, -1$
5. $\sqrt{2}, \frac{1}{3}$
6. $0, \sqrt{5}$
7. Divide $3x^2 - x^3 - 3x + 5$ by $x - 1 - x^2$, and verify the division algorithm.
8. Divide $3x^3 + x^2 + 2x + 5$ by $1 + 2x + x^2$.
9. Divide $2x^2 + 3x + 1$ by $x + 2$
10. Find all the zeroes of $2x^4 - 3x^3 - 3x^2 + 6x - 2$, if you know that two of its zeroes are $\sqrt{2}$ and $-\sqrt{2}$.