

## Worksheet: Polynomials

Uttar Pradesh State Board · Class 10 · Mathematics · 4 questions · 11 marks

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Score: \_\_\_\_\_ / 11

**Q1.** Find the zeros of  $4x^2 - 4x - 3$  and verify the relationship between coefficients and zeros. [2 marks]

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**Q2.** Find a quadratic polynomial whose zeros are 2 and  $1/3$ . [2 marks]

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**Q3.** Divide  $p(x) = x^3 - 3x^2 + 3x - 5$  by  $g(x) = x - 1$ . Find quotient and remainder. [3 marks]

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**Q4.** If  $\alpha$  and  $\beta$  are the zeros of the polynomial  $x^2 - p(x + 1) + c$ , find  $(\alpha - 1)(\beta + 1)$ . [4 marks]

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