MATHS

BOOKS - CHETANA MATHS (MARATHI ENGLISH)

Polynomials

Example

1. Write any two quadratic polynomials

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2. Write the degree of the given polynomials(i) $\sqrt{3}$

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3. Write the degree of the given polynomials(ii)$3m^2n - m^2n^2 + 7mn.$

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4. Subtract: $5x^2 - 2x - 9$ from $7x^2 + 5x + 6$.

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5. Write the following polynomial in coeffecient form $x^3 - 3x + 5$.

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6. If the value of the polynomial $m^2 - am + 7$ for m=-1 is 10,then find the value of a.

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7. Divide $\left(2+2x^2\right) by (x+2)$ by synthetic division and find remainder.

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8. By using remainder theorem,find remainder.When x^3-2x^2-4x-1 is divisible by $x-1$.

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Exercise

1. (2,-1,0,5,6) is the coeffecient form of the polynomial.Write it in index form.

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2. Add:$y^3 - 3y^2 - 9, 3y^3 + 7y^2 - 2y + 10.$

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3. If $p(x) = 2x^2 - x^3 + x + 2$ then $p(0)$.

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4. If $(x - 1)$ is the factor of the polynomial $(x^3 - 2x^2 + mx - 4)$ then find the value of m.

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5. Factorize: $6x^2 - 5x - 6$.

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6. Factorize: $4x^2 - 36$.

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7. Multiply: $\left(x^3 - 1\right) \times \left(x^2 - x + 4\right)$.

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8. Determine whether $(x - 3)$ is a factor of polynomial $x^3 - 19x + 3$.

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