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ARJUN BATCH

CLASS 9th MATHS

बहुपद

Chapter-2 | Part-4



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आज क्या पढेंगे ?

1. बहुपद के गुणनखण्ड
2. प्रश्नावली - 2.3



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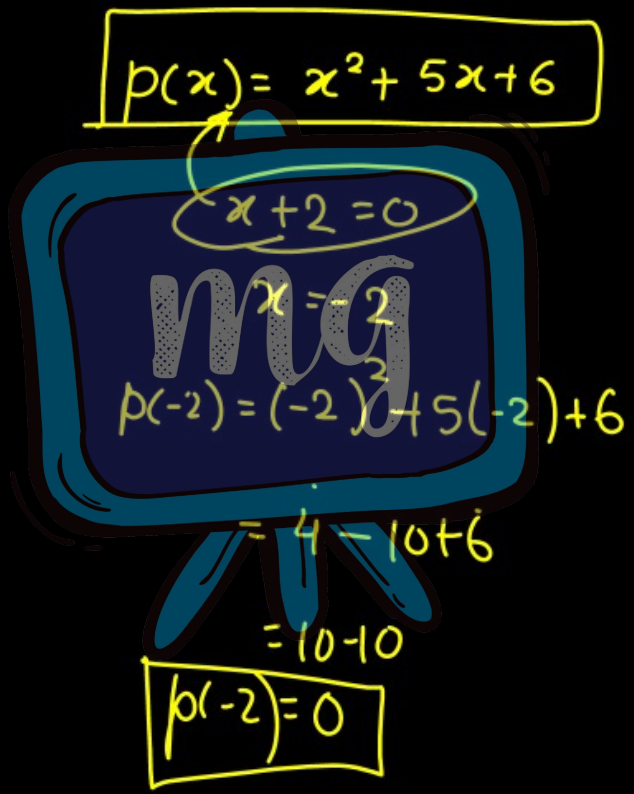
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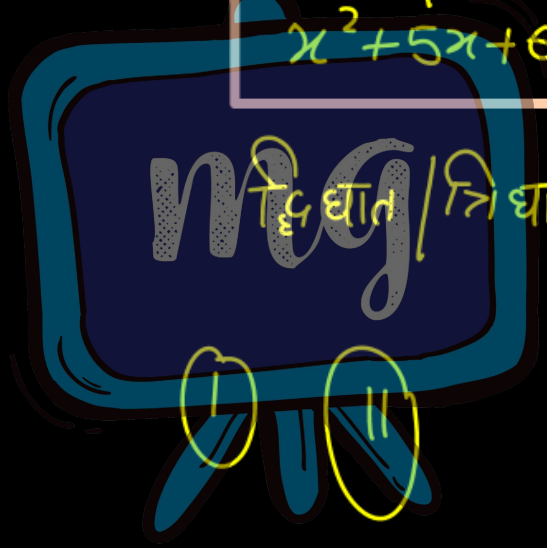
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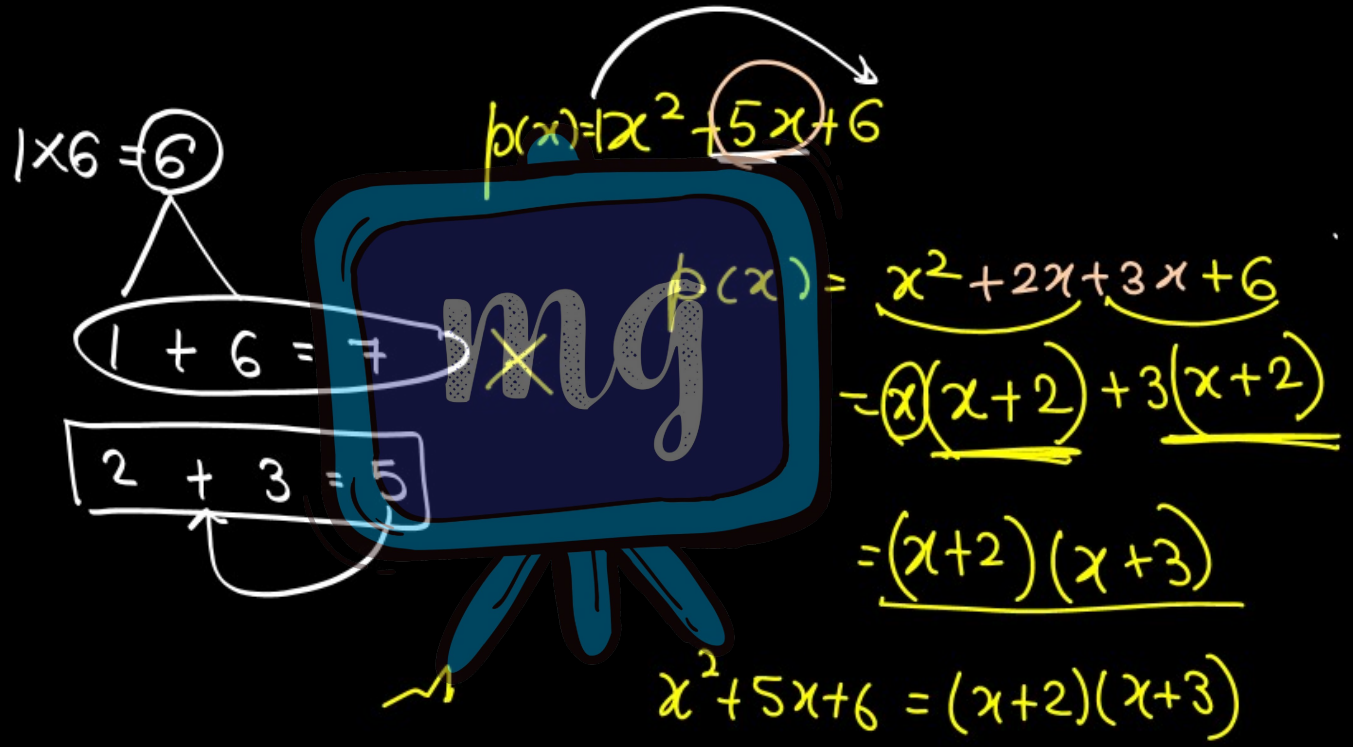
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$$x^2+5x+6=(x+3)(x+2)$$



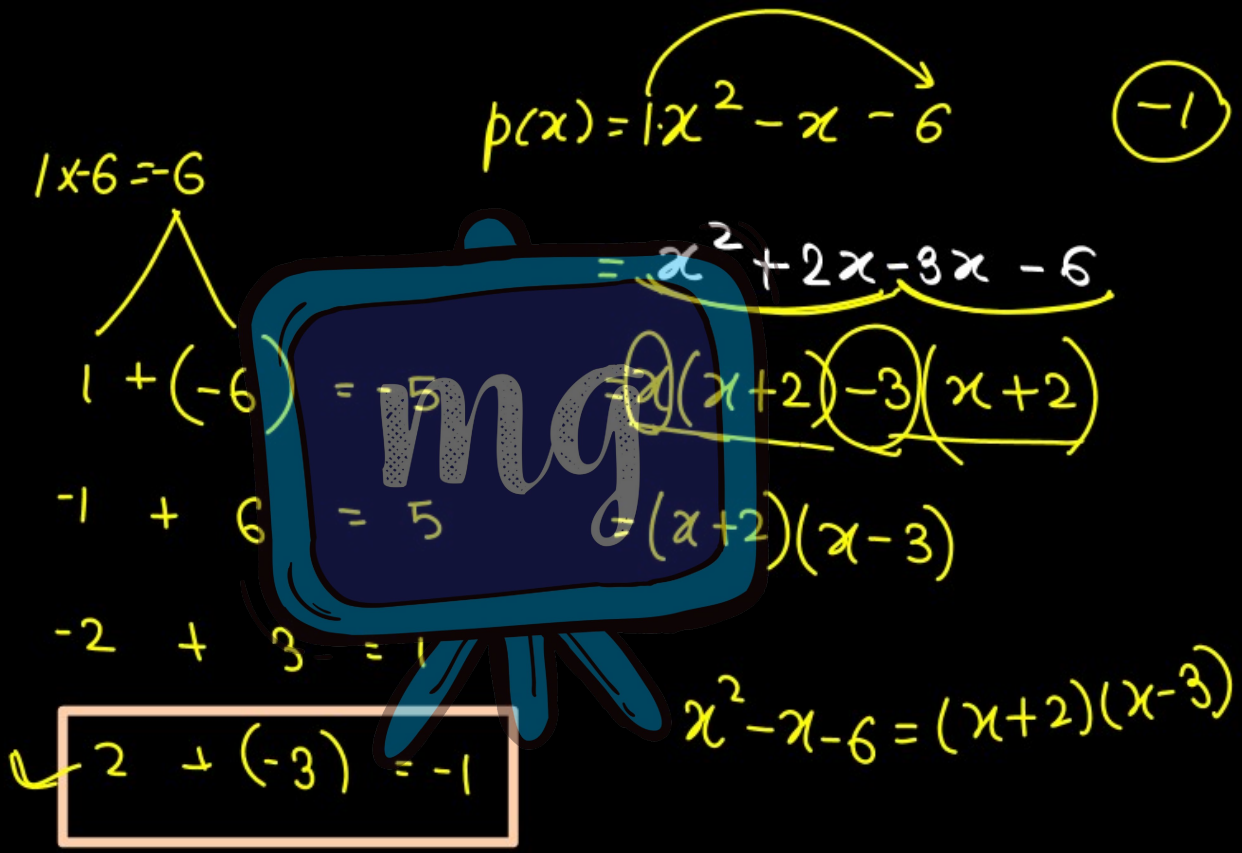
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$g(x) = 1x^2 + 8x + 15$

$1 \times 15 = 15$

$1 + 15 = 16$ ✗

$3 + 5 = 8$ ✓

$= x^2 + 3x + 5x + 15$

$= x(x+3) + 5(x+3)$

$= (x+3)(x+5)$

$x^2 + 8x + 15 = (x+3)(x+5)$

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प्रश्नावली - 2.3

4. गुणनखंड ज्ञात कीजिए :

(i) $12x^2 - 7x + 1$

$12 \times 1 = 12$

$1 + 12 = 13$

$4 + 3 = 7$

$-4 \times -3 = 12$

$-4 - 3 = -7$

हल :- माना $p(x) = 12x^2 - 7x + 1$

$p(x) = 12x^2 - 4x - 3x + 1$

$= 4x(3x - 1) + 1(-3x + 1)$

$= 4x(3x - 1) - 1(3x - 1)$

$= (3x - 1)(4x - 1)$

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प्रश्नावली - 2.3

(ii) $2x^2 + 7x + 3$

$2 \times 3 = 6$

$1 + 6 = 7$

~~$2 + 3 = 5$~~

$7x = x + 6x$

हल :-

माना $p(x) = 2x^2 + 7x + 3$

$p(x) = 2x^2 + x + 6x + 3$

$= x(2x + 1) + 3(2x + 1)$

$= (2x + 1)(x + 3)$

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(iii) $6x^2 + 5x - 6$

हल :- माना $p(x) = 6x^2 + 5x - 6$

$6 \times -6 = -36$

9 12 3 15

5 9 −4

$p(x) = 6x^2 + 9x - 4x - 6$

$= 3x(2x+3) - 2(2x+3)$

$= (2x+3)(3x-2)$

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प्रश्नावली - 2.3

(iv) $3x^2 - x - 4$

$3x \times -4 = -12$

$-4 \quad 3$

हल :- माना $g(x) = 3x^2 - x - 4$

$g(x) = 3x^2 - 4x + 3x - 4$

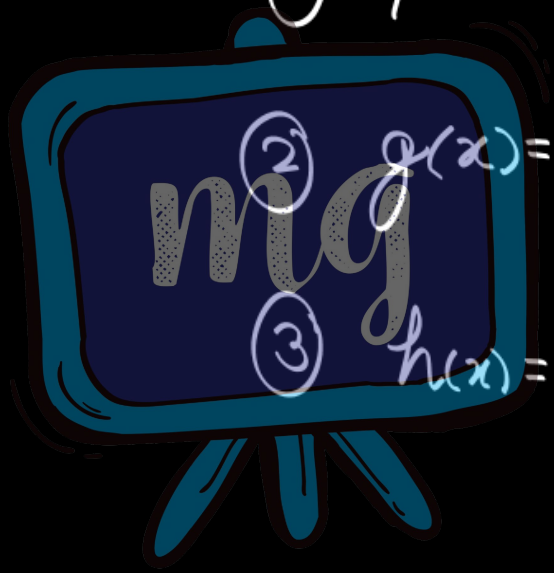
$= x(3x-4) + 1(3x-4)$

$= (3x-4)(x+1)$

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H.W.



① $p(x) = x^2 + x - 12$

② $q(x) = x^2 - 11x + 30$

③ $h(x) = x^2 - 6x - 16$