EduSahara™ Assignment

Name : Factorisation by Grouping

Chapter : Factorisation

Grade : ICSE Grade VII

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1. Factorize $(2x^2+5x-25)$

   (i) $(2x-5)(4x+5)$ (ii) $(2x-5)5$ (iii) $(2x-5)(-2x+5)$ (iv) $(2x-5)(2x+5)$ (v) $(2x-5)(x+5)$

2. Factorize $(2x^3-7x^2-19x+60)$

   (i) $(x+3)(x-4)(2x-5)$ (ii) $(x+3)(-4)(x-5)$ (iii) $(x+3)(-x-4)(-x-5)$ (iv) $(x+3)(2x-4)(3x-5)$

   (v) $(x+3)(3x-4)(4x-5)$

3. Factorize $(x^2+2xa-3x+a^2-3a-4)$

   (i) $(x-a-4)(x+a-1)$ (ii) $(x+a-4)(x-a+1)$ (iii) $(x+a+1)(x+a-4)$ (iv) $(x-a+1)(x+a+4)$

   (v) $(x+a+1)(x-a-4)$

4. Factorize $(6x^2-50xy-36y^2)$

   (i) $(6x+4y)(x+9y)$ (ii) $(6x+4y)(x-9y)$ (iii) $(6x-4y)(x+9y)$ (iv) $(6x-4y)(x-9y)$

   (v) $(6x+4y)(6x-4y)$

5. Factorize $64a^3-16a$

   (i) $(8a+4)(4a-8)a$ (ii) $(8a+4)(8a^2+4)a$ (iii) $(8a^2+4)(4a-8)a$ (iv) $(8a+4)(8a-4)a$

   (v) $(8a-4)(8a^2+4)a$

6. Factorize (x^2+5x+6)

   (i) $(x-3)(x+2)$ (ii) $(x-3)(x-2)$ (iii) $(x+3)(x+2)$ (iv) $(x+3)(x-2)$

7. Factorize $a^2-b^2-c^2-2bc$

   (i) $(a+b+c)(a+b-c)$ (ii) $(a-b-c)(a-b+c)$ (iii) $(a-b-c)(a+b+c)$ (iv) $(a+b+c)(a-b+c)$

   (v) $(a-b-c)(a+b-c)$

8. Factorize $a^2c^2-b^2c^2-a^2d^2+b^2d^2$

   (i) $(a+b)(a-c)(c+d)(c-d)$ (ii) $(a+b)(a-b)(c+d)(c-d)$ (iii) $(a+c)(a-c)(b+d)(b-d)$

   (iv) $(a+b)(a-b)(c+d)(b-d)$ (v) $(a+b)(a-b)(b+d)(c-d)$

9. Factorize $(4x^2+3xy-y^2)$

   (i) $(x+y)(4x-y)$ (ii) $(x-y)(4x+y)$ (iii) $(x+y)(x+y)$ (iv) $(x+y)(4x+y)$ (v) $(x-y)(4x-y)$

10. Factorize $(36xy+63y^2)$

    (i) $9y(4x+7y)$ (ii) $9x(4x-7y)$ (iii) $9x(4x+7y)$ (iv) $9y(-4x-7y)$ (v) $9y(4x-7y)$

11. Factorize $(30a^2b+42ab^2)$

(i) $6ab(-5a-7b)$ (ii) $6a(5a+7b)$ (iii) $6ab(5a-7b)$ (iv) $6b(5a-7b)$ (v) $6ab(5a+7b)$

Assignment Key

1) (v)	2) (i)	3) (iii)	4) (ii)	5) (iv)	6) (iii)
7) (iii)	8) (ii)	9) (i)	10) (i)	11) (v)	

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