



1. Factorize $(2x^2+8x+6)$

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

2. Factorize $(x^2+2xa-7x+a^2-7a-18)$

- (i) $(x-a-9)(x+a-2)$ (ii) $(x-a+2)(x+a+9)$ (iii) $(x+a+2)(x+a-9)$ (iv) $(x+a-9)(x-a+2)$
(v) $(x+a+2)(x-a-9)$

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

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

4. Factorize $(4x^2-27xy-7y^2)$

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

5. Factorize $81a^3-25a$

- (i) $(9a^2+5)(5a-9)a$ (ii) $(9a+5)(9a-5)a$ (iii) $(9a-5)(9a^2+5)a$ (iv) $(9a+5)(9a^2+5)a$
(v) $(9a+5)(5a-9)a$

6. Factorize (x^2+8x+7)

- (i) $(x+7)(x-1)$ (ii) $(x-7)(x+1)$ (iii) $(x+7)(x+1)$ (iv) $(x-7)(x-1)$

7. Factorize (c^4+4)

- (i) $(c^2+2c-2)(c^2-2c-2)$ (ii) $(c^2+2c+2)(c^2+2c-2)$ (iii) $(c^2+2c+2)(c^2-2c-2)$
(iv) $(c^2+2c+2)(c^2-2c+2)$ (v) $(c^2+2c-2)(c^2-2c+2)$

8. 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) $(a-b-c)(a-b+c)$

9. Factorize $(6x^2+31xy-30y^2)$

- (i) $(x+6y)(x+6y)$ (ii) $(x-6y)(6x+5y)$ (iii) $(x+6y)(6x-5y)$ (iv) $(x+6y)(6x+5y)$
(v) $(x-6y)(6x-5y)$

10. Factorize $(24xy+18y^2)$

- (i) $3y(8x+6y)$ (ii) $3x(8x+6y)$ (iii) $3y(-8x-6y)$ (iv) $3x(8x-6y)$ (v) $3y(8x-6y)$

11. Factorize $(10a^2b+18ab^2)$

(i) $2ab(5a+9b)$ (ii) $2a(5a+9b)$ (iii) $2b(5a-9b)$ (iv) $2ab(-5a-9b)$ (v) $2ab(5a-9b)$

Assignment Key

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