



1. Factorize $(2x^2 - 15x - 8)$

- (i) $(2x+1)(x-8)$ (ii) $(2x+1)(3x-8)$ (iii) $(2x+1)(-x-8)$ (iv) $(2x+1)(-8)$ (v) $(2x+1)(2x-8)$

2. Factorize $(x^2 + 2xa + 3x + a^2 + 3a - 28)$

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

3. Factorize $(3x^2 + 24xy + 36y^2)$

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

4. Factorize $(x^2 + 10x + 16)$

- (i) $(x+2)(x+8)$ (ii) $(x-2)(x+8)$ (iii) $(x-2)(x-8)$ (iv) $(x+2)(x-8)$

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

6. Factorize $(30x^2 + 7xy - 15y^2)$

- (i) $(6x-5y)(5x-3y)$ (ii) $(6x-5y)(5x+3y)$ (iii) $(6x+5y)(5x+3y)$ (iv) $(6x+5y)(6x+5y)$
(v) $(6x+5y)(5x-3y)$

7. Factorize $(72xy + 24y^2)$

- (i) $8y(-9x-3y)$ (ii) $8x(9x+3y)$ (iii) $8y(9x-3y)$ (iv) $8x(9x-3y)$ (v) $8y(9x+3y)$

8. Factorize $(20a^2b + 32ab^2)$

- (i) $4b(5a-8b)$ (ii) $4ab(-5a-8b)$ (iii) $4a(5a+8b)$ (iv) $4ab(5a+8b)$ (v) $4ab(5a-8b)$

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

- (i) $(x^2+1)(x^2-3)$ (ii) $(x^2+3)(x^2-3)$ (iii) $(x^2+1)(x^2+3)$ (iv) $(x^2-1)(x^2+3)$ (v) $(x^2-1)(x^2-3)$

Assignment Key

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