



1. The expanded form of  $(x+6)(3x-6)$  is

- (i)  $(x^2 + 12x - 36)$  (ii)  $(4x^2 + 12x - 36)$  (iii)  $(6x^2 + 12x - 36)$  (iv)  $(3x^2 + 12x - 36)$  (v)  $(2x^2 + 12x - 36)$

2. The expanded form of  $(3x-6)(2x-3)(2x-1)$  is

- (i)  $(11x^3 - 48x^2 + 57x - 18)$  (ii)  $(13x^3 - 48x^2 + 57x - 18)$  (iii)  $(15x^3 - 48x^2 + 57x - 18)$   
(iv)  $(10x^3 - 48x^2 + 57x - 18)$  (v)  $(12x^3 - 48x^2 + 57x - 18)$

3. The expanded form of  $(x+2)(x-9)(x-4)(x+3)$  is

- (i)  $(3x^4 - 8x^3 - 23x^2 + 102x + 216)$  (ii)  $(x^4 - 8x^3 - 23x^2 + 102x + 216)$  (iii)  $(2x^4 - 8x^3 - 23x^2 + 102x + 216)$   
(iv)  $(-8x^3 - 23x^2 + 102x + 216)$  (v)  $(-2x^4 - 8x^3 - 23x^2 + 102x + 216)$

4. The expanded form of  $(2x+2)(x+9)$  is

- (i)  $(5x^2 + 20x + 18)$  (ii)  $(3x^2 + 20x + 18)$  (iii)  $(2x^2 + 20x + 18)$  (iv)  $(20x + 18)$  (v)  $(x^2 + 20x + 18)$

5. The expanded form of  $(2x+6)(x-1)(2x+1)$  is

- (i)  $(x^3 + 10x^2 - 8x - 6)$  (ii)  $(6x^3 + 10x^2 - 8x - 6)$  (iii)  $(3x^3 + 10x^2 - 8x - 6)$  (iv)  $(5x^3 + 10x^2 - 8x - 6)$   
(v)  $(4x^3 + 10x^2 - 8x - 6)$

6. The expanded form of  $(x-4)(x+3)(x+8)(x+7)$  is

- (i)  $(x^4 + 14x^3 + 29x^2 - 236x - 672)$  (ii)  $(2x^4 + 14x^3 + 29x^2 - 236x - 672)$  (iii)  $(14x^3 + 29x^2 - 236x - 672)$   
(iv)  $(-x^4 + 14x^3 + 29x^2 - 236x - 672)$  (v)  $(4x^4 + 14x^3 + 29x^2 - 236x - 672)$

7. The expanded form of  $(x-6)(x+2)$  is

- (i)  $(-4x - 12)$  (ii)  $(x^2 - 4x - 12)$  (iii)  $(3x^2 - 4x - 12)$  (iv)  $(-2x^2 - 4x - 12)$  (v)  $(2x^2 - 4x - 12)$

8. The expanded form of  $(2x-2)(2x+6)(2x+8)$  is

- (i)  $(10x^3 + 48x^2 + 40x - 96)$  (ii)  $(9x^3 + 48x^2 + 40x - 96)$  (iii)  $(7x^3 + 48x^2 + 40x - 96)$   
(iv)  $(5x^3 + 48x^2 + 40x - 96)$  (v)  $(8x^3 + 48x^2 + 40x - 96)$

9. The expanded form of  $(x+3)(x+5)(x+8)(x-7)$  is

- (i)  $(9x^3 - 33x^2 - 433x - 840)$  (ii)  $(x^4 + 9x^3 - 33x^2 - 433x - 840)$  (iii)  $(2x^4 + 9x^3 - 33x^2 - 433x - 840)$   
(iv)  $(-2x^4 + 9x^3 - 33x^2 - 433x - 840)$  (v)  $(3x^4 + 9x^3 - 33x^2 - 433x - 840)$

10. The expanded form of  $(x+5)(3x+8)$  is

- (i)  $(6x^2 + 23x + 40)$  (ii)  $(2x^2 + 23x + 40)$  (iii)  $(3x^2 + 23x + 40)$  (iv)  $(x^2 + 23x + 40)$  (v)  $(4x^2 + 23x + 40)$

11. The expanded form of  $(2x+9)(3x-4)(x+1)$  is

- (i)  $(6x^3 + 25x^2 - 17x - 36)$  (ii)  $(5x^3 + 25x^2 - 17x - 36)$  (iii)  $(9x^3 + 25x^2 - 17x - 36)$   
(iv)  $(7x^3 + 25x^2 - 17x - 36)$  (v)  $(3x^3 + 25x^2 - 17x - 36)$

12. The expanded form of  $(x+2)(x-3)(x-8)(x-5)$  is

- (i)  $(-x^4 - 14x^3 + 47x^2 + 38x - 240)$  (ii)  $(4x^4 - 14x^3 + 47x^2 + 38x - 240)$  (iii)  $(x^4 - 14x^3 + 47x^2 + 38x - 240)$   
(iv)  $(-14x^3 + 47x^2 + 38x - 240)$  (v)  $(2x^4 - 14x^3 + 47x^2 + 38x - 240)$

## Assignment Key

1) (iv)

2) (v)

3) (ii)

4) (iii)

5) (v)

6) (i)

7) (ii)

8) (v)

9) (ii)

10) (iii)

11) (i)

12) (iii)