

EduSahara™ Learning Center Assignment

Grade : Class VIII, SSC
Chapter : Algebraic Expressions
Name : Polynomial Product Expansion
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1. The expanded form of $(x - 1)(3x + 1)$ is

- (i) $(-2x - 1)$
 - (ii) $(3x^2 - 2x - 1)$
 - (iii) $(6x^2 - 2x - 1)$
 - (iv) $(4x^2 - 2x - 1)$
 - (v) $(2x^2 - 2x - 1)$
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2. The expanded form of $(3x - 7)(3x - 2)(x - 4)$ is

- (i) $(7x^3 - 63x^2 + 122x - 56)$
 - (ii) $(10x^3 - 63x^2 + 122x - 56)$
 - (iii) $(8x^3 - 63x^2 + 122x - 56)$
 - (iv) $(9x^3 - 63x^2 + 122x - 56)$
 - (v) $(12x^3 - 63x^2 + 122x - 56)$
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3. The expanded form of $(x + 4)(x + 4)(x + 2)(x - 3)$ is

- (i) $(4x^4 + 7x^3 + 2x^2 - 64x - 96)$
- (ii) $(7x^3 + 2x^2 - 64x - 96)$

$$(iii) (-x^4 + 7x^3 + 2x^2 - 64x - 96)$$

$$(iv) (x^4 + 7x^3 + 2x^2 - 64x - 96)$$

$$(v) (2x^4 + 7x^3 + 2x^2 - 64x - 96)$$

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

$$(i) (2x^2 - 15x - 18)$$

$$(ii) (4x^2 - 15x - 18)$$

$$(iii) (6x^2 - 15x - 18)$$

$$(iv) (x^2 - 15x - 18)$$

$$(v) (3x^2 - 15x - 18)$$

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

$$(i) (11x^3 + 48x^2 + 15x - 75)$$

$$(ii) (13x^3 + 48x^2 + 15x - 75)$$

$$(iii) (15x^3 + 48x^2 + 15x - 75)$$

$$(iv) (12x^3 + 48x^2 + 15x - 75)$$

$$(v) (9x^3 + 48x^2 + 15x - 75)$$

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

$$(i) (x^4 + 13x^3 + 31x^2 - 117x - 360)$$

$$(ii) (2x^4 + 13x^3 + 31x^2 - 117x - 360)$$

$$(iii) (-x^4 + 13x^3 + 31x^2 - 117x - 360)$$

$$(iv) (3x^4 + 13x^3 + 31x^2 - 117x - 360)$$

$$(v) (13x^3 + 31x^2 - 117x - 360)$$

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

$$(i) (7x^2 - 18x - 24)$$

$$(ii) (5x^2 - 18x - 24)$$

$$(iii) (4x^2 - 18x - 24)$$

$$(iv) (8x^2 - 18x - 24)$$

$$(v) (6x^2 - 18x - 24)$$

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

$$(i) (5x^3 - 6x^2 - 4x + 6)$$

$$(ii) (x^3 - 6x^2 - 4x + 6)$$

$$(iii) (3x^3 - 6x^2 - 4x + 6)$$

$$(iv) (6x^3 - 6x^2 - 4x + 6)$$

$$(v) (4x^3 - 6x^2 - 4x + 6)$$

9. The expanded form of $(x - 4)(x + 5)(x + 5)(x + 6)$ is

(i) $(12x^3 + 21x^2 - 190x - 600)$

(ii) $(-2x^4 + 12x^3 + 21x^2 - 190x - 600)$

(iii) $(x^4 + 12x^3 + 21x^2 - 190x - 600)$

(iv) $(2x^4 + 12x^3 + 21x^2 - 190x - 600)$

(v) $(3x^4 + 12x^3 + 21x^2 - 190x - 600)$

10. The expanded form of $(3x - 5)(2x - 4)$ is

(i) $(5x^2 - 22x + 20)$

(ii) $(6x^2 - 22x + 20)$

(iii) $(7x^2 - 22x + 20)$

(iv) $(8x^2 - 22x + 20)$

(v) $(4x^2 - 22x + 20)$

11. The expanded form of $(2x + 1)(2x - 7)(3x + 4)$ is

(i) $(11x^3 - 20x^2 - 69x - 28)$

(ii) $(14x^3 - 20x^2 - 69x - 28)$

(iii) $(12x^3 - 20x^2 - 69x - 28)$

(iv) $(13x^3 - 20x^2 - 69x - 28)$

(v) $(10x^3 - 20x^2 - 69x - 28)$

12. The expanded form of $(x - 3)(x + 7)(x + 1)(x - 5)$ is

(i) $(- 42 x^2 + 64 x + 105)$

(ii) $(2 x^4 - 42 x^2 + 64 x + 105)$

(iii) $(4 x^4 - 42 x^2 + 64 x + 105)$

(iv) $(x^4 - 42 x^2 + 64 x + 105)$

(v) $(- x^4 - 42 x^2 + 64 x + 105)$

Assignment Key

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