

EduSahara™ Learning Center Assignment

Grade : Class VIII, CBSE
Chapter : Algebraic Expressions and Identities
Name : Algebraic Expression Concepts
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1. The constant term in polynomial $(3u - 3)$ is

- (i) -3 (ii) -4 (iii) -6 (iv) 0 (v) -2
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2. The constant term in polynomial $(8k^2 + 6k + 1)$ is

- (i) 4 (ii) 2 (iii) -1 (iv) 1 (v) 0
-

3. The coefficient of term e^3 in polynomial $(8e^3 + 7e^2 + 2e + 8)$ is

- (i) 5 (ii) 8 (iii) 7 (iv) 9 (v) 10
-

4. The constant term in polynomial $(-4q^4 - 2q^3 + 4q^2 + 8q + 3)$ is

- (i) 0 (ii) 5 (iii) 3 (iv) 4 (v) 2
-

5. Which of the following algebraic expressions is a monomial?

- (i) $9y^3$
(ii) $(-7y^3 - 4y)$
(iii) $(6y^4 + 3y^3 - 5y^2 - 9y - 8)$
(iv) $(7y^3 + 3y + 5)$
(v) $(-7y^4 - 4y^3 - 9y^2 + 6y - 1)$
-

6. Which of the following algebraic expressions is a binomial?

- (i) $(-7n^3)$

(ii) $(8n^4 + 9n - 6)$

(iii) $(-2n^4 - 7n^3 - 7n^2 - 8n - 4)$

(iv) $(-6n^4 - 8n)$

(v) $(-4n^4 + 5n^3 + n^2 + 9n - 7)$

7. Which of the following algebraic expressions is a trinomial?

(i) $(-m^4 + m^3 + 8m^2 + 8m - 9)$

(ii) $(-5m^4 - 3m^3 - 9m^2 + 6m + 9)$

(iii) $(-6m^2)$

(iv) $(2m^4 - 5m^2 + 8)$

(v) $(m^3 - 2m^2)$

8. Which of the following algebraic expressions is a constant polynomial?

(i) $(c^4 - 2c^3 - c^2 + 8c - 4)$

(ii) $(c^3 + 2c^2 - 7)$

(iii) $(-4c^3)$

(iv) 7

(v) $(-6c^4 + 3c^3)$

9. Which of the following algebraic expressions is a zero polynomial?

(i) $(7i^4 + 7i^3 + 2i^2 - 2i - 4)$

(ii) $(7i^2 - 5)$

(iii) $(-2i^2)$

(iv) $(-4i^3 - i^2 - 5i)$

(v) 0

10. The coefficient of term lm in polynomial $(3lm - 9l - 7m - 3)$ is

- (i) 2 (ii) 1 (iii) 3 (iv) 5 (v) 4
-

11. The coefficient of term t^2 in polynomial $(6s^2 - 8st^2 - t^2 + 8t)$ is

- (i) -1 (ii) -4 (iii) 0 (iv) 2 (v) -2
-

The coefficient of term m in polynomial

12. $(4m^2n^2o^2 + 9m^2 + 9m + 6n^2o^2 - 6no)$ is

- (i) 9 (ii) 6 (iii) 8 (iv) 10 (v) 11
-

The coefficient of term qr^3 in polynomial

13. $(3p^3q^3r + 2p^3q + 7p^2q^2r^2 + 3p^2r - 7pqr^3 + 4pqr^2 - 4qr^3)$ is

- (i) -2 (ii) -4 (iii) -3 (iv) -7 (v) -5
-

14. Which of the following algebraic expressions is a monomial?

(i) $(-9f^2gh^3)$

(ii) $(4f^3g^2h - 8fg^2h^2 - 6g)$

(iii) $(-3f^3g^3h + 9g^2 - 7gh^3 + 3gh^2)$

(iv) $(-4f^2g^2h + 4fg^2h)$

(v) $(9f^3g^3h^2 - 7f^3 - 3g^2h^2 - 3gh^3)$

15. Which of the following algebraic expressions is a binomial?

(i) $(-5k^2lm)$

$$(ii) \quad (- 4 k^3 - 2 k l^2 m + 2 k l m^3)$$

$$(iii) \quad (- 6 k^3 l m - 8)$$

$$(iv) \quad (9 k^2 l m + 3 k l^3 m^2 - k m^3 + 9 l m^3)$$

$$(v) \quad (7 k^3 l^3 m^3 + 5 k^3 l m^2 - 7 k^2 m^2 + 7 k)$$

16. Which of the following algebraic expressions is a trinomial?

$$(i) \quad (- r^3 s^3 t^3 + 5 r s^2 - 5 r t - 7 s t)$$

$$(ii) \quad (3 r^3 + 8 r^2 s^3 t^2 - 5 r^2 - 4 r s^3 t^2)$$

$$(iii) \quad (4 r^3 t^2 + 7 r t)$$

$$(iv) \quad (- 5 r^3 s^3 - 6 r^3 t - 2 r^2 s^2 t^2)$$

$$(v) \quad (- 6 r s^3 t^3)$$

17. Which of the following algebraic expressions is a constant polynomial?

$$(i) \quad 9 u^3 v w^3$$

$$(ii) \quad (8 u^3 v^3 w^2 - 9 u^2 v^3 w^3)$$

$$(iii) \quad 4$$

$$(iv) \quad (3 u^3 v^3 w^2 - 8 u^3 + 5 u^2 v w^3 + 2 u^2)$$

$$(v) \quad (- 8 u^2 v^3 - 5 u v^3 w - 3 v^2 w^2)$$

18. Which of the following algebraic expressions is a zero polynomial?

$$(i) \quad 0$$

$$(ii) \quad 3 o p^2 q^3$$

$$(iii) \quad (- 6 o^2 p q^3 - 7 o^2 p q^2 + 9 o^2 p q + 2 q^3)$$

$$(iv) \quad (- 9 o^3 p^2 q - 6 o p^2 q + 6 o q)$$

$$(v) \quad (- 9 o^2 p - 8 o^2 q^2)$$

Assignment Key

- 1) (i)
- 2) (iv)
- 3) (ii)
- 4) (iii)
- 5) (i)
- 6) (iv)
- 7) (iv)
- 8) (iv)
- 9) (v)
- 10) (iii)
- 11) (i)
- 12) (i)
- 13) (ii)
- 14) (i)
- 15) (iii)
- 16) (iv)
- 17) (iii)
- 18) (i)