EduSahara™ Learning Center Assignment

Grade : Class VII, CBSE
Chapter : Algebraic Expressions
Name : Algebraic Expression Concepts
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1. The constant term in polynomial $(-6s -6)$ is

   (i) -6 (ii) -5 (iii) -3 (iv) -9 (v) -7

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2. The coefficient of term d in polynomial $(-2d^2 -8d -9)$ is

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

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3. The coefficient of term r^3 in polynomial $(-9r^3 +6r^2 -3r +4)$ is

   (i) -8 (ii) -12 (iii) -9 (iv) -10 (v) -7

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4. The coefficient of term m^2 in polynomial $(5m^4 -m^3 -7m^2 -8m +8)$ is

   (i) -8 (ii) -9 (iii) -6 (iv) -4 (v) -7

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

   (i) $(-d +7)$

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

   (iii) $(9d^4 -4d^3 +4d^2 +7d -4)$

   (iv) $9d^2$

   (v) $(-2d^4 -2d^3 -5)$

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

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

   (ii) $3y^4$

(iii) $(8 y^2 + 3)$

(iv) $(2 y^4 + 5 y^3 - y^2 + 8 y + 2)$

(v) $(-6 y^4 - 6 y^3 - 2 y^2 - 6 y - 3)$

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

(i) $(-6 p^4 - 5 p^3 - 2 p^2 - 9 p + 9)$

(ii) $(-5 p^3 - 7 p)$

(iii) $(-2 p^4)$

(iv) $(-3 p^4 - 5 p^3 - 5 p^2 + 4 p - 5)$

(v) $(7 p^4 - 8 p^2 - 1)$

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

(i) $(-3 h^2)$

(ii) $(2 h^3 - 8 h^2 + 4)$

(iii) 8

(iv) $(-h^4 - 8 h^3 - 7 h^2 + 8 h - 6)$

(v) $(8 h^4 + 2 h^3)$

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

(i) 0

(ii) $(3 d^4 - 5 d^2 + 2)$

(iii) $(-3 d^3)$

(iv) $(-8 d^4 - d^3 + 3 d^2 - 7 d - 5)$

(v) $(-4 d - 2)$

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10. The coefficient of term ef in polynomial $(7ef + 7e - 18f + 10)$ is

(i) 8 (ii) 6 (iii) 4 (iv) 10 (v) 7

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11. The coefficient of term g in polynomial $(5f^2g^2 + 3f^2g - 8fg^2 - 9g)$ is

(i) -6 (ii) -8 (iii) -10 (iv) -12 (v) -9

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12. The coefficient of term w in polynomial $(-6w^2xy - 3wxy + 3wx - 7wy + 9w)$ is

(i) 9 (ii) 6 (iii) 8 (iv) 12 (v) 10

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13. The coefficient of term cd^3e^3 in polynomial $(2c^3d^2 + 7c^3d + 7c^2d^3e^3 + 7c^2d^3 + 2cd^3e^3 - 4d^3e^3 + 6d^3)$ is

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

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

(i) $(6c^2de^3 + 5c^2e^2 + 4d^3e)$

(ii) $(-5c^3e^3 + 8c^3e)$

(iii) $3cde^3$

(iv) $(-2cd^2e - 9cde^3 + 9c - de)$

(v) $(-8c^3 - 2cd^3e^3 - 4ce^2 - 5d^3e^2)$

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

(i) $(6w^3y + 9w^2xy^3 + 2x^2y^2 - 3y^2)$

(ii) $7w^3x^2y^3$

(iii) $(-4w^3x^3y^2 - 5w^3x^3y + 6xy)$

(iv) $(-4wx^3y^3 + x^2)$

(v) $(5w^3x^3 - 4w^3x^2y + 2w^2x^3y^2 - 9wx^2y)$

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

(i) $(-9c^3d^3e^3 + 3d^2e^3 + 7de^2)$

(ii) $(-5c^3d^3e^3 + 9c^2d^2e + 5c^2d^2 + 3ce^2)$

(iii) $(4c^2d^3e + 6cde)$

(iv) $(7c^2d^3e + 9c^2de^3 - 3ce^3 - 2)$

(v) $(-7cd^3e^3)$

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

(i) $(-9s^3t^2 - 3t^2)$

(ii) (-6)

(iii) $3r^3st^3$

(iv) $(8r^2 - 2rs^3t^3 - 6s^3t^3)$

(v) $(-5r^3st^2 - 7r^2s^3t^3 + 8rs^3t^2 - 3rs^2t)$

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

(i) $(-8o^2pq)$

(ii) $(-8o^3pq^2 + p)$

(iii) 0

(iv) $(-4o^3pq - 5o^3 + 5op^3q^2 - 6p^3)$

(v) $(op^2q^2 - 6op^2 - 2pq^2)$

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19. Which of the following is a factor of $25x^3yz^5$?

(i) x^3z^6 (ii) $x^2y^2z^5$ (iii) x^2z^5 (iv) x^2z^6 (v) x^4z^5

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20. Which of the following is not a factor of $27x^5y^3z$?

(i) $9x^5y^4z$ (ii) $9yz$ (iii) $9x^4y^3z$ (iv) $9x^5y^2z$ (v) $9x^5y^3$

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21. Which of the following is an irreducible factor of $50x^3yz^2$?

(i) x^2y (ii) $x^2y^2z^2$ (iii) y (iv) y^2z (v) xz^2

Assignment Key

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