

Algebraic Expression – 1

- 1.A 2.B 3.A 4.B 5.A 6.B 7.A 8.A 9.B 10.B
11.A 12.B 13.C 14.C 15.A 16.C 17.A 18.B 19.C 20.D

Algebraic Expression – 2

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|--|---|
| 1. $-\frac{1}{3}pq$ | 2. $5x + y - 6z$ |
| 3. $6x^3 - 6x^2 + 3x + 2$ | 4. $x^3 + 2y^3 + 4z^3 - 5z^2 - 3y - 1$ |
| 5. $x^2y - 12x^3 + 8y^3 - 9xy^2$ | 6. $\frac{1}{9}a^2b$ |
| 7. $-\frac{13}{6}a^3b^3$ | 8. $\frac{9r^2}{p^2q}$ |
| 9. $3x^2 - 12x^5 - 19x^4 + 2x^3 - 27x^2 - 2x + 20$ | 10. $48x^2 + 100xy + 48y^2$ |
| 11. $-6x^2 + 16y^2 - 9xy - 11$ | 12. $2p^2 + 6p - 5$ |
| 13. $-3p^2 + 3q^2 + 7r^2 - 5pqr$ | 14. $-\frac{4}{3}m^4n^2 - 12m^3n^3$ |
| 15. $p^3 + 4p^2 - 16p - 64$ | 16. $Q = 4r^3 - 3r^2 - 19r + 53, R = 83r - 152$ |
| 17. Rs. $2(2a^2 - 4a + 3)$ | 18. $(18p + 14q)$ unit |
| 19. $m^5 + m^4n + m^3n^2 + m^2n^3 + mn^4 + n^5$ | 20. $4x^2 + 4y^2 - 8xy$ |

Algebraic Expression – 3

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|---|---|
| 1. $\frac{40}{9}p^2q - \frac{9}{40}pq^2 + \frac{7}{10}pq$ | 2. $\frac{-123}{35}a^2 + \frac{15}{36}a + 11$ |
| 3. i) $-45m^2n$ ii) $-42a^3b$ | 4. $252a^2b^2$ |
| 5. $\frac{2}{3}p^7q^3$ | 6. $30m^6n^4$ |
| 7. 988 | 8. $\frac{-25}{24}a^4b^4c^4$ |
| 9. $0.0468r^2t$ | 10. $\frac{15}{28}a^6b^2c^3$ |
| 11. $(8x + 8y)$ | 12. $15m + 9$ |
| 13. a) 11236 b) 9216 c) 89975 d) 6800 | 15. a) 10040.04 b) 79.21 c) 9999.91 |
| 14. $\frac{m^4}{16} - \frac{16}{n^4}$ | 17. 51 |
| 16. 18 | 19. $p^2 + 20p + 99$ |
| 18. 16 | |
| 20. $21a^4 - 21a^3b - 80a^2b + 2ab^3 + 24b^4$ | |

Algebraic Expression – 4

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|------------------------------------|----------------|--|--------|-----------------|
| 1. $25x^2 - 144y^2$ | 2. 359984 | 3. $4a^2 + 9b^2 + 12ab$ | 4. 5.5 | 5. $m^4 + n^4p$ |
| 6. a) 11881, b) $16x^2 + 44x + 30$ | 7. 6,243 | 8. 9 | 9. 5 | 10. 36 |
| 11. C | 12. D | 13. A | 14. B | 15. A |
| 16. $14p^3 - 21p^2q + 28p^3$ | 17. $3(p+q+r)$ | | | |
| 18. 0 | 19. 9600 | 20. $(-46pq^3 - 8p^2q^2 - 26q^4 + 20p^3q), -8$ | | |