

Algebra Worksheet – 4

1. Identify the form of below mentioned equation.

$$p^2 + 2p - 3$$

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| a) Monomials | b) Binomials |
| c) Trinomials | d) None of these |

2. What is the coefficient of P^2 in $-3p^2qr$?

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| a) -3 | b) 3 |
| c) qr | d) -3qr |

3. What is the coefficient of xyz in xyz ?

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| a) 0 | b) 2 |
| c) 1 | d) 3 |

4. What is the coefficient of m^2n in $6m^2np$?

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| a) 6 | b) 6p |
| c) p | d) 1 |

5. pqr and $-pqr$ are unlike terms. Mark True / False.

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| a) True | b) False |
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6. p^2q and pq^2 are like terms. Mark True / False.

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| a) True | b) False |
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7. What is the degree of below mentioned polynomials?

$$\frac{1}{2}y^2 - 2y$$

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| a) 0 | b) 1 |
| c) 2 | d) None of these |

8. If $a = 3$, $b = 4$ and $c = 5$, then find the value of $2ab + 3bc - ca$

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| a) 24 | b) 69 |
| c) 96 | d) None of these |

9. If $n = 8$, find the value of $n^2 - 2n + 5$.

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| a) 35 | b) 64 |
| c) 16 | d) 53 |

10. If $m = 3$ and $n = 4$, find the value $5m^2 + 2n^2$.

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| a) 45 | b) 32 |
| c) 77 | d) None of these |

11. When $b = 4$, then b^2 and $3b$ have same value. Mark True / False.

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| a) True | b) False |
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12. If $a = 3$ and $b = -2$, find the value of $a^2 + b^2$.

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| a) 12 | b) 20 |
| c) 15 | d) 13 |

13. If $y = 5$, then find the value of $y^2 + 2y + 5$.

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| a) 25 | b) 20 |
| c) 40 | d) 10 |

14. If $p = 4$ and $q = 5$, find the value of $\frac{2p - q}{3}$.

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| a) 0 | b) 1 |
| c) 2 | d) None of these |

15. 5 and $6q$ are unlike terms. Mark True / False.

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| a) True | b) False |
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16. $ab - bc + ac$ is a polynomial in a, b, c of degree 3. Mark True / False.

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| a) True | b) False |
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17. $n + \frac{1}{2n} + 5$ is a polynomial. Mark True / False.

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| a) True | b) False |
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18. $m^2n - mn^2 + 3mn$ is a polynomial in m, n of degree 3. Mark True / False.

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| a) True | b) False |
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19. $2mn$ is a trinomial. Mark True / False.

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| a) True | b) False |
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20. What is the degree of below mentioned polynomials?

$$4p^2q + 3pq^2 + 7pq - 5$$

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| a) 0 | b) 1 |
| c) 2 | d) 3 |