### Algebraic Expressions Practice Test Question Answers

SET 1

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| **1.**The coefficient of xy in  **3x2 zy + 7xyz – 2z2x**  is | |
| 🔘 A. -5z | 🔘 B. 3.5z |
| 🔘 C. -2 | 🔘 D. 7z |
| 🔘 E. 5yz | |

**Answers**

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| **2.**The factors of the term –**xy2**   are | |
| 🔘 A. x × y × y | 🔘 B. – 1 × y × y |
| 🔘 C. – 1 × x × y | 🔘 D. – 1 × x × y × y |
| 🔘 E. NOTA | |

**Answers**

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| **3.**Simplify the expression **7x3 – 3x2y + xy2 + x2y – y3** | |
| 🔘 A.  7x3– 2x2y + xy2 – y3 | 🔘 B.  7x3– 2x2y + xy2 |
| 🔘 C.  7x3– 2x3y | 🔘 D.  7x3– 2xy3 |
| 🔘 E. 17xy | |

**Answers**

**7x^3– 2x^2y + xy^2 – y^3**

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| **4.** Find the value of the following expressions at**a = 1**and **b = –2:**  **a3 + a2b + ab2 + b3** | |
| 🔘 A. 1 | 🔘 B. 0 |
| 🔘 C. 10 | 🔘 D. -5 |
| 🔘 E. -1 | |

**Answers**

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| **5**. Find each side of an equilateral triangle given below, if it’s perimeter is 240 cm. | |
| 🔘 A. 38.5 cm | 🔘 B. 65.5 |
| 🔘 C. 77 cm | 🔘 D. 80 cm |
| 🔘 E. 90.5 cm | |

**Answers**

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| **6.**Number of terms in the expression **3x2y – 2y2z – z2x + 5** is | |
| 🔘 A. -1 | 🔘 B. 0 |
| 🔘 C. 2 | 🔘 D. 4 |
| 🔘 E. -2 | |

**Answers**

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| **7. Which of the following is a pair of like terms?** | |
| 🔘 A. –7xy**2**z, – 7x**2**yz | 🔘 B. – 10xyz**2**, 3xyz**2** |
| 🔘 C. 3xyz, 3x**2**y**2**z**2** | 🔘 D. 4xyz**2**, 4x**2**yz |
| 🔘 E. – 2xyz**2**, 2x**2**yz | |

**Answers**

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| **8.**The side length of the top of square table is **x**. The expression for perimeter is: | |
| 🔘 A. 4 + x | 🔘 B. 2x |
| 🔘 C. 4x | 🔘 D. 8x |
| 🔘 E. 16x | |

**Answers**

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| **9.** The value of **3x2 – 5x + 3** when **x = 1** is | |
| 🔘 A. 1 | 🔘 B. -1 |
| 🔘 C. 0 | 🔘 D. 11 |
| 🔘 E. -1.5 | |

**Answers**

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| **10.**The expression for the number of diagonals that we can make from one vertex of a n sided polygon is: | |
| 🔘 A. 2n + 1 | 🔘 B. n – 2 |
| 🔘 C. 5n + 2 | 🔘 D. n – 3 |
| 🔘 E. 2n+2 | |

**Answers**