

**WORKSHEET**

**MATHEMATICS**

**GRADE-VII Date: 23.11.20**

**I.** Practice the questions given in the worksheet on types of algebraic expressions. The questions are based on identifying whether the algebraic expressions are monomial, binomial, trinomial or polynomial.

**1. State whether the following statements are true or false:**

(i) Expression 5a2 + a is a trinomial  
  
(ii) Expression ax2 + bx + c is a trinomial  
  
(iii) 5 × mn is a binomial  
  
(iv) 11 + xy is a binomial  
  
(v) a3 – 3ab + 7a + 9 is a polynomial  
  
(vi) 2x3 + 7xy + 3x + 2 is a multinomial  
  
(vii) 1 + 2x + 3x2 + x4 + x5 is a binomial

**2. Which of the following expressions are polynomials?**

(i) 10 – 13x

(ii) z + z2 + z5 - 7  
  
(iii) 1 + 1/a + 1/a2 + 1/a3 +1/a4  
  
(iv) (m2 + m – 2)/(m – 3)  
  
(v) 1/2 – 5/(4 + u)  
  
(vi) 1 + 5m  
  
(vii) 1 + 5u + 4u2

**3. For each expression, given below, state whether it is a monomial, binomial or trinomial:**

(i) mn

(ii) mn + m

(iii) 2a ÷ b

(iv) 7abc

(v) 7 + u + v

(vi) 2p2 – p  
  
(vii) –k  
  
(viii) ax2 + bx – 7

(ix) -3mn + t

(x) 1 + a + z

(xi) 1 + a ÷ z

(xii) a + ab – b2

**4. Identify the following expressions are monomials, binomials, trinomials, polynomials:**

(i) 11pqr

(ii) m + 2n

(iii) a + b + c

(iv) 1 – m + m2 + m5 – m7 + m9  
  
(v) 2ab + c

(vi) 10 + 17k – 23k3