1. Classify the following monomials, binomials and trinomials

   (i) $4x^2 - 5$

   (ii) $3x^2 - 5x + 6$

   (iii) $\frac{3}{5}xyz$

   (iv) $4x^3 + 3x^2 - 6$

   (v) $5x^3 - 6$

2. Write the degree of the following algebraic expression (in x only)

   (i) $4x^2y + x^4 + 6x^6$

   (ii) $\frac{3}{7}x^3y - 5x^3y^3 + 7x^7$

   (iii) $\frac{5}{7}xy - 6$

   (iv) $5xy + x^3 - x^2$

3. Write the following into algebraic language

   (i) x cube minus two lines x square

   (ii) Five subtracted from x square

   (iii) Age of father in twice the age of him son.

4. Write the co-efficient of x in

   (i) $2x - 3y$

   (ii) $5xy^2 - 5y^3$

   (iii) $\frac{3}{7}xy^3 + \frac{2}{7}y^4$

5. Write the co-efficient of

   (i) p^2 in $\frac{12}{5}p^2$

   (ii) x^3 in $4x^3 - 3x + 5$

   (iii) x in $-4x + \frac{9}{13}$

   (iv) q in $-\frac{4}{3}p^2r^2q + \frac{9}{5}$

6. Identify the constant term in the following

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

(ii) $\frac{3}{7}xy - \frac{4}{5}x + \frac{9}{7}$

(iii) $3p^2x + 4q^2y$

(iv) $\frac{3}{5}p^2x^2 - \frac{5}{6}px + \frac{9}{5}$

7. Write the factor of the following monomials

(i) $3x^2yz$

(ii) $-\frac{5}{9}xyz$

(iii) $\frac{3}{4}x^2y^2z^2$

(iv) $7x^2ypq$

8. Identify the terms and represent in the form of tree diagram.

(i) $4x^2y + 6xy^2$

(ii) $3abc + 4p^2q^2$

9. State whether each pair of terms given below in like or unlike

(i) $4x^2y$ and $4xy^2$

(ii) $3x^2y^2z^2$ and $6x^2y^2z^2$

(iii) $3x^2y^2$ and $\frac{5}{3}x^2y$

(iv) $5pq$ and $7p^2q^2r$

10. Identify the like terms in the following algebraic expressions.

(i) $5x^2 - 3xy + 3x^2 - 1$

(ii) $4xy - 4x^2y^2 - 2xy - 2x^2y^2 + 9xy$

(iii) $x^2 - 2y^2 + 7x^2 - 9y^2 - 2xy + xy$