

Q.1 Classify the following polynomials as monomials, binomials, trinomials. Which polynomials do not fit in any category?

(i) $x+y$

(ii) 1000

(iii) $x + x^2 + x^3 + x^4$

(iv) $7+a+5b$

(v) $2b - 3b^2$

(vi) $2y - 3y^2 + 4y^3$

(vii) $5x-4y+3x$

(viii) $4a - 15a^2$

(ix) $xy+yz+zt+tx$

(x) pqr

(xi) $p^2q + pq^2$

(xii) $2p+2q$

Q.2 Identify the terms, their coefficients for each of the following expressions:

(i) $7x^2yz - 5xy$

(ii) $x^2 + x + 1$

(iii) $3x^2y^2 - 5x^2y^2z^2 + z^2$

(iv) $9 - ab + bc - ca$

(v) $a/2 + b/2 - ab$

(vi) $0.2x - 0.3xy + 0.5y$