Q1. Write an algebraic expression:

(i) Product of numbers 2a and b subtracted from 100.

(ii) Subtracting 7 from the product of 5 and x

Q2. Write the coefficient of

(i) x in the term $2xyz$

(ii) y^2 in the term $-3xy^2$

Q3. Show terms and factors of $2x – 3x^3$ by tree diagram.

Q4. Subtract

(i) $x^2 – 2xy +3y^2$ from $4xy – 7x^2 + 5y^2$.

(ii) $8y – x^2 – 4$ from $3x^2 + 5x + 4$

Q5. Add

(i) $4 + 3x,\ 5 – 4x +2x^2\ and – x^2 +2x +5$.

(ii) $2x^2 + 3y^2 + 1,\ 2y^2 – 1 – 4x^2$ and $1 + 3x^2 + 3y^2$

Q6. What should be added to $2x^2 + 3y^2+ 5xy$ to get $7x^2 – 3y^2 – 3xy$?

Q7. What should be subtracted from $5xy – 7x^2 + 3y^2$ to get $x^2 + y^2 + z^2$?

Q8. If $x = 2$ find the value of $3x^2 - 2x + 3$.

Q9. What is the value of m if $3x^2 + 4x - m$ is equal to 7, when $x = -1$.

Q10. Simplify the expression: $3(-x^2 + 2xy) - 5(xy - x^2)$ and find the value for $x = 1$ and $y = -1$.