

9 Class Math Tuition Assignment

Assignment – 2

Assigned To = All 9 Class Students

Chapter = POLYNOMIALS

MM = 30

Q1. Compute the value of $9x^2 + 4y^2$ if $xy = 6$ and $3x + 2y = 12$.

Q2. Find the value of the polynomial $5x - 4x^2 + 3$ at $x = 2$ and $x = -1$.

Q3. Calculate the perimeter of a rectangle whose area is $25x^2 - 35x + 12$.

Q4. Find the value of $x^3 + y^3 + z^3 - 3xyz$ if $x^2 + y^2 + z^2 = 83$ and $x + y + z = 15$

Q5. If $a + b + c = 15$ and $a^2 + b^2 + c^2 = 83$, find the value of $a^3 + b^3 + c^3 - 3abc$.

Q6. If $(x - 1/x) = 4$, then evaluate $(x^2 + 1/x^2)$ and $(x^4 + 1/x^4)$.

Q7. Find the values of a and b so that $(2x^3 + ax^2 + x + b)$ has $(x + 2)$ and $(2x - 1)$ as factors.

9 Class Math Tuition Assignment

Q8. Check whether $(7 + 3x)$ is a factor of $(3x^3 + 7x)$.

Q9. Factorise $x^2 + 1/x^2 + 2 - 2x - 2/x$

Q10. Factorise $x^2 - 1 - 2a - a^2$.

9 Class Math Tuition Assignment