MODERN PUBLIC SCHOOL SEC. 37 FBD

CLASS IX

SUBJECT MATHS

HOLIDAY HOMEWORK

Q1 Find the value of m, if x + 4 is a factor of the polynomial x2 + 3x + m.

Q2 Find the common factor in the quadratic polynomials x2 + 8x + 15 and x2 + 3x – 10.

Q3 Show that p – 1 is a factor of p¹0 + p8 + p6– p4 – p2 – 1.

Q4 If x – 3 is a factor of x2 – 6x + 12, then find the value of k. Also, find the other factor of the polynomial for this value of k.

Q5 Find a and b so that the polynomial x3– 10x2 + ax + b is exactly divisible by the polynomials (x – 1) and (x – 2).

Q6 Find ‘x’, if 2x-7 × 5x-4 = 1250.

Q7 The sides of a triangle are X, X + 1 and 2x - 1 and its area is √10 x .Find the value of x and hence find the perimeter of the triangle

Q8 find the area of a triangle two of its sides are 14 cm and 10 cm and the perimeter is 42 CM. Also find the length of the perpendicular drawn to the longest side from its opposite vertex.

Q9 find the area of a triangle whose sides are 80cm, 48 cm and 64cm.Also find the altitude corresponding to the side of length 64cm.

ART INTEGRATED ACTIVITY:

To draw Hermit crab by constructing roots spiral.

NOTE :Revise chapter 1,2,3,4,6 from Manjeet singh for July test series.