STD: 10 th Marks:20	1 st Unit Test	Sub – Math 1 Time: 1 Hr.
Q1. Solve the following 1) To draw graph of 4x +	5y = 19, Find y when $x = 1$	(4 Marks)
(A) 4 (B) 3	(C) 2 (D) -3	
2 Obtain the quadratic equ	nation if roots are 3, 5.	
(A) $x^2 - 15x + 8 = 0$	(B) $x^2 - 8x + 15 = 0$	
(C) $x^2 + 3x + 5 = 0$	(D) $x^2 + 8x - 15 = 0$	
3) Find the value of <i>a</i> , <i>b</i> , <i>a</i>	x for the equation $x^2 + 10x - 7 = 0$?	
(A) $a = -1, b = 10, c = 7$	(B) $a = 1, b = -10, c = 7$	
(C) $a = 1, b = 10, c = -7$	(D) $a = 1, b = 10, c = 7$	
4) For simultaneous equat	ions in variables x and y $Dx = 49$, $Dy = -6$	53 and $D = 7$ then Find y.
(A) 9 (B) 7	(C) -7 (D) -9	
2. $m^3 - 5m + 4 = 0$ Deci 3. $99x + 101y = 499$ and	x - 2y - 4 = 0 by determinant method find 1 de given equation is quadratic equations? 1101x + 99y = 501 the find the value of x whether 2 are solution of the equation	
Q3. Solve any Three		(6 Marks)

- 1. Find the values of each of the following determinants. $\begin{vmatrix} 8 & 4 \\ 1 & -2 \end{vmatrix}$
- 2. Write the following equation in the form $ax^2 + bx + c = 0$, then write the values of a, b, c for each equation.

$$2x^2 - 5x + 7 = 0$$

- 3. Solve the simultaneous equations: x + y = 2 and 2x y = 2
- 4. $x^2 + 8x + 15 = 0$ Solve quadratic equations by factorization

Q4. Solve any Two

- 1. Solve by Formula method $5x^2 + 13x + 8 = 0$
- 2. The sum of squares of two consecutive natural numbers is 244; find the numbers.
- 3. Draw the graph of equation x + 2y = 4. Find the area of the triangle form by the line intersecting to X axis and Y axis.