**ASSIGNMENT NO.- 4 [Ch-5 (Continuity and Differentiability)]**

**Class -XII**

1. If is continuous at , then find the values of and

2. If the function is continuous at ,find

3. Determine the value of so that the function is continuous at

4. Find the values of and such that the function defined by

is a continuous function.

5. Differentiate w.r.t.

6. If ,then prove that .

7. If ,find .

8. If ,then show that .

9. If ,find

10. If and ,find at

11. If ,then show that

12. If ,then prove that

13. Verify Rolle’s Theorem for the function in

14. Verify Langrange’s Mean Value Theorem for on [1,4].

15. Verify Rolle’s Theorem for the function in the interval