**AUGUST I WEEKLY TEST**

**CLASS XII MATHS**

**Time-30min M.M.10**

***NOTE:- Attempt all the questions.***

1. **A ladder 5m long is leaning against a wall. The bottom of the ladder is pulled along the ground way from the wall at the rate of 2cm/s.**

**How fast is its height on the wall decreasing, when the foot of the ladder is 4m away from the wall ? 2M**

1. **Find the intervals in which the function f(x) = 2x3-3x2-36x+17**

**is strictly increasing or strictly decreasing.**

**OR**

**Find the intervals in which the function f(x) = cosx + sinx ; 0**

**is strictly increasing or strictly decreasing. 4M**

1. **For the curve y = 4x3 – 2x5, find all the points at which the tangent pass through the origin. 4M**

**THE END**