FIRST UNIT TEST CLASS-X MATHEMATICS

Time: 2 Hrs

MARKS: 50



- 17. The angle of elevation of an aeroplane from a point P on the ground is 60° . After a flight of 15 seconds. The angle of elevation changes to 30° . If the aeroplane is flying at a constant height of $1500\sqrt{3}$ m, find the speed of aeroplane.
- 18. Prove that if a line is drawn parallel to one side of any triangle intersecting the other two sides, the other two sides are divided in same ratio. Use the above result to prove that the diagonals of a trapezium cut each other in the same ratio.