

# SETH M.R. JAIPURIA SCHOOLS BANARAS PARAO CAMPUS

## SUBJECT – MATHEMATICS

### CLASS –X

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#### Dear Students,

Please ensure that all the activities from the Mathematics Lab Manual are neatly written in your Lab Manual notebook. The manual should be properly covered with black chart paper and clearly labelled.

1. To draw the graph of a quadratic polynomial and observe:
  - (i) The shape of the curve when the coefficient of  $x^2$  is positive.
  - (ii) The shape of the curve when the coefficient of  $x^2$  is negative.
  - (iii) Its number of zeroes.
2. To verify the conditions of consistency/ inconsistency for a pair of linear equations in two variables by graphical method.
3. To find the sum of first  $n$  natural numbers.
4. To establish the criteria for similarity of two triangles.
5. To identify Arithmetic Progressions in some given lists of numbers (patterns).
6. To verify the distance formula by graphical method.
7. To verify volume of cone is equal to one third of volume of cylinder.
8. To verify that the lengths of tangents to a circle from some external points are equal.