

Akal academy bhai desa

Class:- 10th. lesson plan:- _____. Date:-

Topic:- Quadratic equations Overview:- 10 periods+2periods

Teaching Aids:-Green board, Chalk, Duster,Charts.

Pre requisite knowledge:-

- Basic knowledge of polynomials.
- Basic knowledge of linear equations in one variable.

Objectives:-

- Introduction of quadratic equations.
- Solution of a quadratic equation by factorisation .
- Solution of a quadratic equation by completing the square and quadratic formula (Discriminant method).
- Nature of roots.

Engage:- Start the lecture by checking their previous knowledge like:-

1. What is polynomial ?
2. What are the variables and constant?
3. Name different type of polynomials ?

Explanation:-

- Teacher will write the general equation of quadratic polynomial and explain it's all components.
- Teacher explain the all method which are used to find the roots of quadratic equations:
 1. Factorisation method
 2. Completing square method
 3. Discriminant method(quadratic formula)
- Teacher will also explain the nature of root by using quadratic formula.

Expected outcomes:-

- Students will be able to know all important concepts related to quadratic equation. Students should know the use of factorisation method, completing square method and discriminant method.

Explore:-

- students will review questions given by the teacher.
- Students will solve NCERT problems with examples and assignments given by teacher.

Final recapitulation:-

Teacher will recall the main important points at the end of the class.

Evaluation:-

- Separate worksheets will be provided by teacher which includes logical thinking and HOTS questions to above average students.
- Written test will be conducted by teacher.

Sign of teacher

sign of HOD