

- Definition:
  - ◆ Numerical Methods
  - ◆ Round-off error & Truncation error with examples
  - ◆ Accuracy & Precision with examples
  - ◆ Total numerical error
  - ◆ Interpolation and Extrapolation
- Characteristics of Numerical Methods
- Determining accurate, inaccurate, precise and imprecise from the given figure or, demonstrating the examples accurate, inaccurate, precise and imprecise in figure
- Proof of "trade-off between truncation error and round-off error" or "truncation error and round-off error are inversely changed while step size increases"
- Algorithm:
  - ◆ Bisection
  - ◆ False position
- Math:
  - ◆ Bisection, Newton Raphson and False position methods
  - ◆ Interpolation (linear, forward and backward)