

# Lecture on Aug. 3rd, 2017: Interpolating Polynomials

## 1 Warm-up Practice

- Find the particular solution for (A)  $y' + \frac{2}{x}y = \ln x; y(1) = 2$  (B)  $y' = 3x^2y^2; y(1) = 1$ .

## 2 Interpolating Polynomials

- Piecewise linear approximation.
- Definitions of interpolating polynomial and Newton's form.
- Procedure to find interpolating polynomial.
- Divided difference table.