

# NUMERICAL METHODS

C / RAPPY EXAM 12 / 11/19 / 2022 [20.000]

## LEAST SQUARES REGRESSION

GOAL: MINIMIZE THE SUM OF THE SQUARES OF THE RESIDUALS (ERRORS)

RESIDUAL:  $y_i - \hat{y}_i$

RESIDUALS SUM:  $\sum (y_i - \hat{y}_i)$

RESIDUALS SQUARES SUM:  $\sum (y_i - \hat{y}_i)^2$

RESIDUALS SQUARES SUM:  $\sum (y_i - a_0 - a_1 x_i)^2$

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RESIDUALS SQUARES SUM:  $\sum (y_i - a_0 - a_1 x_i)^2$

RESIDUALS SQUARES SUM:  $a_0 = \frac{\sum y_i}{n}$

RESIDUALS SQUARES SUM:  $a_1 = \frac{\sum (x_i y_i) - \frac{\sum x_i \sum y_i}{n}}{\sum x_i^2 - \frac{(\sum x_i)^2}{n}}$

RESIDUALS SQUARES SUM:  $a_0 = 5 - 0.8$

## POLYNOMIAL QUADRATIC REGRESSION:

GOAL: MINIMIZE THE SUM OF THE SQUARES OF THE RESIDUALS (ERRORS)

RESIDUAL:  $y_i - \hat{y}_i$

RESIDUALS SQUARES SUM:  $\sum (y_i - \hat{y}_i)^2$

RESIDUALS SQUARES SUM:  $\sum (y_i - a_0 - a_1 x_i - a_2 x_i^2)^2$

RESIDUALS SQUARES SUM:  $\sum (y_i - a_0 - a_1 x_i - a_2 x_i^2)^2$

RESIDUALS SQUARES SUM:  $\sum (y_i - a_0 - a_1 x_i - a_2 x_i^2)^2$

RESIDUALS SQUARES SUM:  $\frac{\partial S}{\partial a_0} = -2(\sum y_i - \sum a_0 - a_1 \sum x_i - a_2 \sum x_i^2) = 0$

RESIDUALS SQUARES SUM:  $\frac{\partial S}{\partial a_1} = -2(\sum x_i y_i - \sum a_0 \sum x_i - a_1 \sum x_i^2 - a_2 \sum x_i^3) = 0$

RESIDUALS SQUARES SUM:  $\frac{\partial S}{\partial a_2} = -2(\sum x_i^2 y_i - \sum a_0 \sum x_i^2 - a_1 \sum x_i^3 - a_2 \sum x_i^4) = 0$

RESIDUALS SQUARES SUM:  $\begin{bmatrix} n & \sum x_i & \sum x_i^2 \\ \sum x_i & \sum x_i^2 & \sum x_i^3 \\ \sum x_i^2 & \sum x_i^3 & \sum x_i^4 \end{bmatrix} \begin{bmatrix} a_0 \\ a_1 \\ a_2 \end{bmatrix} = \begin{bmatrix} \sum y_i \\ \sum x_i y_i \\ \sum x_i^2 y_i \end{bmatrix}$

RESIDUALS SQUARES SUM:  $[A][X] = [B]$

RESIDUALS SQUARES SUM:  $X = A^{-1}B$

## STANDARD ERROR:

STANDARD ERROR:  $S_y = \sqrt{\frac{\sum (y_i - \hat{y}_i)^2}{n-2}}$

STANDARD ERROR:  $S_x = \sqrt{\frac{\sum (x_i - \hat{x}_i)^2}{n-2}}$

## STANDARD DEVIATION:

STANDARD DEVIATION:  $S_y = \sqrt{\frac{\sum (y_i - \bar{y})^2}{n-1}}$

STANDARD DEVIATION:  $S_x = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n-1}}$

STANDARD DEVIATION:  $a_0 = \bar{y} - a_1 \bar{x}$

STANDARD DEVIATION:  $a_1 = \frac{\sum (x_i - \bar{x})(y_i - \bar{y})}{\sum (x_i - \bar{x})^2}$

## INTERPOLATION

USE 2 POINTS: LINEAR

USE 3 POINTS: QUADRATIC

USE 4 POINTS: CUBIC

USE 5 POINTS: QUARTIC

USE 6 POINTS: QUINTIC

USE 7 POINTS: SEXTIC

USE 8 POINTS: SEPTIC

USE 9 POINTS: OCTIC

USE 10 POINTS: NONIC

USE 11 POINTS: DECIC

USE 12 POINTS: UNDECIC

USE 13 POINTS: DUODECIC

USE 14 POINTS: TRIGONIC

USE 15 POINTS: TETRADECIC

USE 16 POINTS: PENTADECIC

USE 17 POINTS: HEXADECIC

USE 18 POINTS: HEPTADECIC

USE 19 POINTS: OCTADECIC

USE 20 POINTS: ENNEDECIC

USE 21 POINTS: ICOSONIC

USE 22 POINTS: HICATONIC

USE 23 POINTS: TRICATONIC

USE 24 POINTS: TETRACATONIC

USE 25 POINTS: PENTACATONIC

USE 26 POINTS: HEXACATONIC

USE 27 POINTS: HEPTACATONIC

USE 28 POINTS: OCTACATONIC

USE 29 POINTS: ENNECATONIC

USE 30 POINTS: ICOSONIC

USE 31 POINTS: HICATONIC

USE 32 POINTS: TRICATONIC

USE 33 POINTS: TETRACATONIC

USE 34 POINTS: PENTACATONIC

USE 35 POINTS: HEXACATONIC

USE 36 POINTS: HEPTACATONIC

USE 37 POINTS: OCTACATONIC

USE 38 POINTS: ENNECATONIC

USE 39 POINTS: ICOSONIC

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USE 89 POINTS: HEXACATONIC

USE 90 POINTS: HEPTACATONIC

USE 91 POINTS: OCTACATONIC

USE 92 POINTS: ENNECATONIC

USE 93 POINTS: ICOSONIC

USE 94 POINTS: HICATONIC

USE 95 POINTS: TRICATONIC

USE 96 POINTS: TETRACATONIC

USE 97 POINTS: PENTACATONIC

USE 98 POINTS: HEXACATONIC

USE 99 POINTS: HEPTACATONIC

USE 100 POINTS: OCTACATONIC

## ODE'S

EUROPE METHOD:  $y_{n+1} = y_n + f(x_n, y_n) \Delta x$

EUROPE METHOD:  $\frac{dy}{dx} = f(x, y)$

## ROMBERG'S METHOD:

ROMBERG'S METHOD:  $y_{n+1} = y_n + f(x_n, y_n) \Delta x$

ROMBERG'S METHOD:  $\frac{dy}{dx} = f(x, y)$

ROMBERG'S METHOD:  $y = \frac{y_1 + 2y_2 + \dots + f(x_n, y_n) + f(x_{n+1}, y_{n+1})}{2}$

ROMBERG'S METHOD:  $y_{n+1} = y_n + \frac{f(x_n, y_n) + f(x_{n+1}, y_{n+1})}{2} \Delta x$

TAYLOR SERIES:  $y(x) = y_0 + y_0' \Delta x + \frac{y_0''}{2!} (\Delta x)^2 + \dots$

TAYLOR SERIES:  $y(x) = y_0 + y_0' \Delta x + \frac{y_0''}{2!} (\Delta x)^2 + \dots$

## CLASSIC 4th ORDER RUNGE-KUTTA:

CLASSIC 4th ORDER RUNGE-KUTTA:  $y_{n+1} = y_n + \frac{\Delta x}{4} (k_1 + 2k_2 + 2k_3 + k_4)$

CLASSIC 4th ORDER RUNGE-KUTTA:  $k_1 = f(x_n, y_n)$

CLASSIC 4th ORDER RUNGE-KUTTA:  $k_2 = f(x_n + \frac{1}{2} \Delta x, y_n + \frac{1}{2} \Delta x k_1)$

CLASSIC 4th ORDER RUNGE-KUTTA:  $k_3 = f(x_n + \frac{1}{2} \Delta x, y_n + \Delta x k_2)$

CLASSIC 4th ORDER RUNGE-KUTTA:  $k_4 = f(x_n + \Delta x, y_n + \Delta x k_3)$

CLASSIC 4th ORDER RUNGE-KUTTA:  $y_{n+1} = y_n + \Delta x \frac{k_1 + 2k_2 + 2k_3 + k_4}{4}$

CLASSIC 4th ORDER RUNGE-KUTTA:  $y_{n+1} = y_n + \Delta x \frac{k_1 + 2k_2 + 2k_3 + k_4}{4}$

## PDE'S

### FINITE DIFFERENCE METHOD:



## EIGEN VALUES

EIGEN VALUES:  $A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$

EIGEN VALUES:  $\lambda = \frac{a+d}{2} \pm \sqrt{\left(\frac{a-d}{2}\right)^2 + bc}$

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FINITE DIFFERENCE METHOD:  $\frac{\partial^2 u}{\partial x^2} = 0$

FINITE DIFFERENCE METHOD:  $u_{i,j+1} = u_{i,j-1} + 2u_{i,j} - u_{i,j+1} - u_{i,j-1}$

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[C] MATRIX:  $u_{i,j+1} = u_{i,j-1} + 2u_{i,j} - u_{i,j+1} - u_{i,j-1}$

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[D] MATRIX:  $u_{i,j+1} = u_{i,j-1} + 2u_{i,j} - u_{i,j+1} - u_{i,j-1}$

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