

NUMERICAL METHODS

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

LEAST SQUARES REGRESSION

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



$$S_r = \sum_{i=1}^n d_i = \sum_{i=1}^n (y_i - a_0 - a_1 x_i)$$

$$Q_0 = \frac{\sum y_i}{n} \quad Q_1 = \frac{\sum x_i y_i}{\sum x_i^2}$$

$$a_0 = \bar{y} - a_1 \bar{x}$$

STANDARD ERROR:

$$S_{y_1} = \sqrt{\frac{\sum y_i^2}{n-2}} \quad S_{y_2} = \sqrt{\frac{\sum (y_i - \hat{y}_i)^2}{n-2}}$$

STANDARD DEVIATION:

$$S_y = \sqrt{\frac{\sum y_i^2}{n-1}} \quad S_x = \sqrt{\frac{\sum (x_i - \bar{x})^2}{n-1}}$$

POLYNOMIAL QUADRATIC REGRESSION:



$$S_r = \sum_{i=1}^n (y_i - a_0 - a_1 x_i - a_2 x_i^2)^2$$

• TAKE DERIVATIVE OF S_r TO FIND THE ERROR

$$\frac{\partial S_r}{\partial a_0} = -2(\sum y_i - \sum a_0 - a_1 \sum x_i - a_2 \sum x_i^2) = 0$$

$$\frac{\partial S_r}{\partial a_1} = -2(\sum y_i x_i - \sum a_0 \sum x_i - a_1 \sum x_i^2 - a_2 \sum x_i^3) = 0$$

$$\frac{\partial S_r}{\partial a_2} = -2(\sum y_i x_i^2 - \sum a_0 \sum x_i^2 - a_1 \sum x_i^3 - a_2 \sum x_i^4) = 0$$

$$\begin{bmatrix} \sum 1 & \sum x_i & \sum x_i^2 \\ \sum x_i & \sum x_i^2 & \sum x_i^3 \\ \sum x_i^2 & \sum x_i^3 & \sum x_i^4 \end{bmatrix} \begin{bmatrix} a_0 \\ a_1 \\ a_2 \end{bmatrix} = \begin{bmatrix} \sum y_i \\ \sum y_i x_i \\ \sum y_i x_i^2 \end{bmatrix}$$

COEFFICIENT OF DETERMINATION $R^2 = \frac{S_{y_1}^2}{S_y^2}$

INTERPOLATION

USE A POLYNOMIAL FIT:



ODE'S

EULER'S METHOD

$$\frac{dy}{dx} = f(x,y) \quad y_{i+1} = y_i + f(x_i, y_i) \Delta x$$

HEUN'S METHOD

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

$$y_{i+1} = y_i + f(x_i, y_i) \Delta x$$

$$y_{i+1} = y_i + \frac{f(x_i, y_i) + f(x_{i+1}, y_{i+1})}{2} \Delta x$$

TAYLOR SERIES:
 $y(x+\Delta x) = y(x) + \Delta x \frac{dy}{dx} + \frac{\Delta x^2}{2} \frac{d^2y}{dx^2} + \dots$
 $y(x+\Delta x) = y(x) + f(x,y) \Delta x$

CLASSIC 4th ORDER RUNGE-KUTTA:

$$y_{i+1} = y_i + \frac{\Delta x}{4} (k_1 + 2k_2 + 2k_3 + k_4)$$

$$k_1 = f(x_i, y_i)$$

$$k_2 = f(x_i + \frac{1}{2}\Delta x, y_i + \frac{1}{2}k_1 \Delta x)$$

$$k_3 = f(x_i + \frac{1}{2}\Delta x, y_i + \frac{1}{2}k_2 \Delta x)$$

$$k_4 = f(x_i + \Delta x, y_i + k_3 \Delta x)$$

PDE'S

FINITE DIFFERENCE METHOD:



EIGEN VALUES

$\lambda = \text{SCALAR VALUE}$

EXAMPLE:

$$\begin{bmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \\ a_{31} & a_{32} & a_{33} \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \\ x_3 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$

Single 2x2:

$$A = \begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

$$\Delta(x) = \det \begin{bmatrix} a-\lambda & b \\ c & d-\lambda \end{bmatrix} = 0$$

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

Two equal roots case:

$$\begin{bmatrix} a-\lambda & b \\ c & d-\lambda \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$$

$$x_1 = -x_2$$

$$x_1 = -x_2$$

$\begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \end{bmatrix}$

$$-ax + bx = 0 \quad x_1 = x_2$$

$$cx + -dx = 0 \quad x_1 = x_2$$

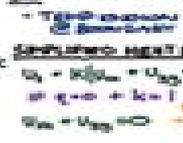
1D Heat Conduction



$$u_{i-1}(x) = u(x_i - \Delta x) = u(x_i) - \Delta x \frac{\partial u}{\partial x}$$

$$u_{i+1}(x) = u(x_i + \Delta x) = u(x_i) + \Delta x \frac{\partial u}{\partial x}$$

2D Heat Conduction



$$u_{i-1,j} = u(x_i - \Delta x, y_j) = u_{i,j} - \Delta x \frac{\partial u}{\partial x}$$

$$u_{i+1,j} = u(x_i + \Delta x, y_j) = u_{i,j} + \Delta x \frac{\partial u}{\partial x}$$

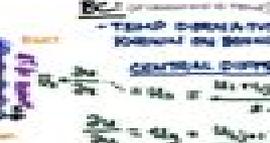
1D Advection



$$u_{i-1} = u(x_{i-1}, t) = u_{i,j} - \Delta x \frac{\partial u}{\partial x}$$

$$u_{i+1} = u(x_{i+1}, t) = u_{i,j} + \Delta x \frac{\partial u}{\partial x}$$

2D Advection



$$u_{i-1,j} = u(x_{i-1}, y_j, t) = u_{i,j} - \Delta x \frac{\partial u}{\partial x}$$

$$u_{i+1,j} = u(x_{i+1}, y_j, t) = u_{i,j} + \Delta x \frac{\partial u}{\partial x}$$

5th Row of A Matrix



$$\frac{\partial u}{\partial x} = u_x = \frac{u_{i+1,j} - u_{i-1,j}}{2\Delta x}$$

$$\frac{\partial u}{\partial y} = u_y = \frac{u_{i,j+1} - u_{i,j-1}}{2\Delta y}$$

Left Boundary B.C.

$$u_{i-1,j} = u_{i,j} - 2\Delta x u_x$$

[A] MATRIX:

$$-u_{i-1,j} + 4u_{i,j} - u_{i+1,j} - u_{i,j-1} = -2\Delta x u_x$$

$$-2u_{i-1,j} + 4u_{i,j} - u_{i+1,j} = -2\Delta x u_x$$

$$-u_{i-1,j} - u_{i+1,j} + 4u_{i,j} - 2u_{i,j-1} = -2\Delta x u_x$$

$$-u_{i-1,j} - u_{i+1,j} + 4u_{i,j} - 2u_{i,j-1} = -2\Delta x u_x$$

5th ROWS:

CENTERED FINITE-DIFFERENCE DERIVATIVE

$$f'(x) = \frac{f(x) - f(x-h)}{h}$$

$$f'(x) = \frac{f(x-h) - 3f(x) + 3f(x+h) - f(x+h)}{12h}$$

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David Baud



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Unveiling the Magic of Words: A Overview of "**Numerical Methods Lecture Notes 01 Vsb**"

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web luas dan keliling kalkulator online menghitung luas dan keliling dari bentuk bidang geometri anda juga bisa menemukan rumus rumus gambar gambar dan tata cara penghitungan pada situs ini kalkulator lingkaran $l = \pi r^2$ $k = 2 \pi r$ segitiga $l = \frac{1}{2} a b c$ segitiga siku siku $l = \frac{1}{2} a b$ $k = a^2 + b^2$ persegi $l = a^2$ $k = 4 a$

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web feb 6 2023 untuk menghitung luas bidang datar kita perlu mengetahui rumusnya terlebih dahulu berikut adalah rumus luas dari beberapa bidang datar yang sering digunakan 1 luas segitiga $\frac{1}{2} \times a \times t$ 2 luas persegi $l \times s$ 3 luas persegi panjang $l \times p$ 4 luas lingkaran $l \times \pi \times r^2$

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web sayangnya berbeda bentuk geometris berbeda pula pendekatan yang digunakan untuk menghitung luas bangunnya anda bisa menggunakan rumus rumus berikut untuk mencari luas beberapa bangun datar yang cukup umum jajaran genjang alas \times tinggi persegi sisi \times sisi segitiga $\frac{1}{2} \times$ alas \times tinggi beberapa pakar matematika menggunakan

16 rumus bangun datar luas dan keliling dengan contoh - Oct 06 2022

web rumus luas bangun datar berikut ini adalah rumus luas bangun datar yang bisa kamu pelajari serta contoh soalnya 1 rumus luas persegi untuk mencari luas bangun datar persegi rumusnya adalah $l \times s$ keterangan l luas s sisi contoh soal sebuah persegi memiliki sisi 4 cm berapakah luas dari persegi tersebut jawab $l \times s = 4 \times 4$

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web banyak rumus geometri bidang datar yang dikembangkan untuk mendukung pengukuran luas daerah atau luas dari suatu benda seiring dengan perkembangan zaman geometri dimensi datar menjadi salah satu ilmu yang wajib dipelajari manusia karena banyak benda atau daerah yang bisa diukur menggunakan rumus geometri bidang datar tersebut

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web jun 27 2023 rumus luas segitiga segitiga merupakan bidang datar yang memiliki tiga sisi rumus luas segitiga adalah $\frac{1}{2} \times a \times t$ keterangan a panjang alas segitiga t tinggi segitiga contoh soal sebuah segitiga memiliki tinggi 8 cm dan alas 10 cm hitunglah luas dari segitiga tersebut penyelesaian luas $\frac{1}{2} \times a \times t = \frac{1}{2} \times 10 \times 8$

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web baca lainnya contoh soal luas dan keliling segitiga penyelesaian $l \times \pi \times r^2 = \frac{1}{2} \times 7 \times 7 = \frac{1}{2} \times 49 = 24,5 \text{ cm}^2$ jadi luas lingkaran adalah 154 cm^2 demikianlah pembahasan mengenai bagaimana cara menghitung luas bangun

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layang layang

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web jul 28 2022 rumus luas lingkaran lingkaran adalah bangun datar yang merupakan himpunan semua titik yang mempunyai jarak sama dari suatu titik pusat rumus luas bidang ini adalah sebagai berikut rumus luas lingkaran suatu lingkaran memiliki panjang jari jari 21 cm maka luas lingkaran tersebut adalah

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web aug 3 2014 hai sahabat pembaca setia mungkin anda sedang membutuhkan rumus rumus tentang bangun atau bidang datar berikut ini kami berikan kumpulan rumus untuk mencari luas dan keliling bangun datar yang lengkap untuk anda persegi luas $s \times s$ keliling $4 \times s$ ket s sisi persegi panjang luas $p \times l$ keliling $2 \times p + l$ ket p

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web untuk menghitung luas suatu bidang datar misalnya persegi sering digunakan rumus baku yaitu panjang dikalikan lebar namun yang menjadi masalah jika nilai nilai tersebut tidak diketahui hal ini menjadi pekerjaan yang sangat rumit dan memerlukan beberapa pendekatan untuk menentukn luasnya

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web 1 ukurlah panjang dan lebarnya mulailah mengukur atau mencari tahu panjang dan lebar bangun datar itu atau dengan kata lain ukuran masing masing dari dua sisi yang bertemu di satu titik untuk sebuah jajaran genjang anda harus menemukan alas dan tingginya tetapi secara sederhana idenya sama dengan panjang dan lebar

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web mar 8 2023 rumus luas bidang datar adalah sebuah rumus yang digunakan untuk menghitung luas dari sebuah bidang datar seperti segitiga persegi persegi panjang lingkaran trapesium dan lain lain luas adalah ukuran besarnya bidang datar yang diukur dalam satuan luas atau meter persegi

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web aug 17 2023 rumus luas jajar genjang $a \times t$ alas dan t tinggi rumus keliling jajar genjang $ab + bc + cd + ad$ 4 rumus trapesium bangun datar bangun datar trapesium adalah bangun segi empat yang mempunyai sepasang sisi yang sejajar untuk rumus luas dan keliling trapesium bisa kalian lihat dibawah ini

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web rumus luas bangun datar rumus luas pada bangun datar adalah formula matematika yang dipakai untuk menghitung ukuran bidang dari bentuk geometris khusus formula formula ini memberikan metode untuk menghitung seberapa besar area yang tercakup oleh bangun datar tersebut

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web luas bidang datar adalah ukuran bagian dalam dari bidang datar tersebut kita mulai menghitung dari satuan luas terkecil misalnya satu meter persegi hingga menjadi bentuk persegi panjang kita dapat menemukan rumus untuk menghitung luas segi empat tersebut perhatikan gambar berikut pada gambar di atas segitiga merah dan coklat

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