1.常微分方程式

U)
$$\frac{dh}{dx} = \sqrt{x - \frac{1}{2}}$$
 $x - \frac{1}{2} = \frac{1}{2}$
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(2)
$$\frac{y}{\chi^2 + y^2} dx - \frac{x}{\chi^2 + y^2} dy = 0$$

$$y dx - x dy = 0$$

$$\int dx = \int dy$$

$$|\partial x|^2 |\partial y|^2$$

$$|\partial y| |\partial x|^2 = |\partial y| |\partial y|^2$$

$$\frac{|x|}{|y|} = c'$$

$$\frac{x}{|y|} = e^{c'} = c$$

$$x = cy$$

(3)
$$\frac{d^2y}{dx^2} - 2\frac{dy}{dx} - 3y^2 + 2$$
 $\frac{d^2y}{dx^2} - 2\frac{dy}{dx} - 3y^2 = 0$ 12 7~2

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 $\frac{d^2y}{dx^2} - 2\frac{dy}{dx} - 2y^2 = 0$ 12 7~2

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 $\frac{d^2y}{dx^2} - 2\frac{dy}{dx} - 2y^2 = 0$ 12 7~2

 $\frac{d^2y}{dx^2} - 2y^2 = 0$ 12 7~2

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2. 行列

$$A = \begin{pmatrix} 4 & -3 & 3 \\ -1 & 3 & -2 \\ -3 & 4 & -3 \end{pmatrix}$$

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$$A = \begin{pmatrix} -1 & 2 &$$

$$=$$
 $\begin{pmatrix} 1 \\ 0 \end{pmatrix} + S \begin{pmatrix} 1 \\ 1 \end{pmatrix}$

先にでめた国有べかしと同じ

3.偏微分方程式

- (1) $f(x,t)=\frac{1}{12x+5}$ $f(2x+5+1)+\frac{1}{2}$ $f(2x-5+1)+\frac{1}{2}$ $f(2x-5+1)+\frac{1}{2}$
- (2) $\frac{1}{2} (2x) = \frac{1}{2} (2x) = \frac{1}{2} (2x) = \frac{1}{2} (2x) = 0$ $\frac{1}{2} (2x) = \frac{1}{2} (2x) = 0$ $\frac{1}{2} (10, t) = \frac{1}{2} (5t) + \frac{1}{2} (-5t) = 0$ $\frac{1}{2} (10, t) = \frac{1}{2} (5t + 2\pi) + \frac{1}{2} (-5t + 2\pi) = 0$ $\frac{1}{2} (10, t) = \frac{1}{2} \sin(2x + 5t) + \frac{1}{2} \sin(2x 5t)$ $= 8 \sin(2x) \cos(5t)$

4.統計

2021年5月21日 金曜日 14:19

(1)
$$\overline{X} = \frac{30 + 28 + 25 + 33 + 34}{5}$$
 = 30
 $S^2 = \frac{0^2 + (-2)^2 + (-5)^2 + 3^2 + 4^2}{5} = 10.8$
 $T^2 = \frac{0^2 + (-2)^2 + (-5)^2 + 3^2 + 4^2}{5 - 1} = 13.5$

(2) (a) 母行散が既知 (o²=3.5²)のとき このとと 統計室 乙の信頼区間は -1.96 至 乙 至 1.96 しんが、こ -1.96 至 マール 至 1.96

$$-1.96 \times \frac{0}{100} + \frac{1}{2} \le 1.96 \times \frac{0}{100} + \frac{1}{2}$$

$$26.93 \le 14 \le 33.00$$

(b) 母分散が未知のとさ、 このとも執計量 'Z' - - M - T / M / T / M / (は自由な4のも分布に従う

$$-2.776 \leq \frac{\overline{X} - M}{\sqrt{U'/n}} \leq 2.776$$

25,44 € M ≤ 34.56