

9 Apr. 19. 18 733, 4100 ft.

1397/1/28

$$f(x) = \frac{1}{x^p + q}, \quad x_i = \frac{10^i}{K} - \omega \quad -1$$

حکایات فصلات بیشتر ہے چون مصلحتا بہت اندازہ اڑم ہوئیں وہ اس

لا اله الا الله محمد بن عبد الله

Handwritten notes on lined paper, likely a calendar or journal page, showing dates and times. The notes are written in blue ink and include:

- Top left: Δ
- Top center: Δ
- Top right: Δ^r and Δ^r
- Second row left: $- \Delta$, $0, 1, 1, 1, 1$, $0, 1, 1, 1, 1$
- Second row center: Δ
- Second row right: $0, 1, 1, 1, 1$, $0, 1, 1, 1, 1$
- Third row left: $- \Delta$, $0, 1, 1, 1, 1$
- Third row center: Δ
- Third row right: $0, 1, 1, 1, 1$, $0, 1, 1, 1, 1$
- Fourth row left: 0 , $0, 1, 1, 1, 1$
- Fourth row center: Δ
- Fourth row right: $0, 1, 1, 1, 1$, $0, 1, 1, 1, 1$
- Fifth row left: Δ , $0, 1, 1, 1, 1$
- Fifth row center: Δ
- Fifth row right: $0, 1, 1, 1, 1$, $0, 1, 1, 1, 1$
- Sixth row left: 0 , $0, 1, 1, 1, 1$
- Sixth row center: Δ
- Sixth row right: $0, 1, 1, 1, 1$, $0, 1, 1, 1, 1$
- Seventh row left: 0 , $0, 1, 1, 1, 1$
- Seventh row center: Δ
- Seventh row right: $0, 1, 1, 1, 1$, $0, 1, 1, 1, 1$
- Eighth row left: 0 , $0, 1, 1, 1, 1$
- Eighth row center: Δ
- Eighth row right: $0, 1, 1, 1, 1$, $0, 1, 1, 1, 1$
- Ninth row left: 0 , $0, 1, 1, 1, 1$
- Ninth row center: Δ
- Ninth row right: $0, 1, 1, 1, 1$, $0, 1, 1, 1, 1$
- Tenth row left: 0 , $0, 1, 1, 1, 1$
- Tenth row center: Δ
- Tenth row right: $0, 1, 1, 1, 1$, $0, 1, 1, 1, 1$

Time stamps on the right side of the page:

- 12:00
- 13:00
- 14:00
- 15:00

$$S = \frac{x - x_c}{h} = \frac{x + \Delta}{\Delta/y} = \frac{y(x + \Delta)}{\Delta}$$

$$P_{(w)} = t_e + \binom{g}{1} \Delta t_o + \binom{g}{r} \Delta t_f + \binom{g}{w} \Delta t_o + \binom{g}{f} \Delta t_o$$

$$0.10 PAK + \left(\frac{P_{2+10}}{2} \right) 0.10 PYP + \frac{5(5-1)(5-2)}{\mu!} (0.01009^{\mu})^{0.00} +$$

$$\rho(-r) =$$

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$$P(x) = A e^{Mx}$$

$$\ln(P) = \ln A + Mx = Y = B + Mx$$

x_i	t_i	$\ln P$	x_i^2	$x_i \ln y_i$
۱	۸	۲,۱۰۷۹	۱,۰	۲,۱۰۷۹
۲	۱۲	۲,۱۴۸۵	۴,۰	۴,۹۷
۳	۱۸	۲,۱۸۹	۹,۰	۸,۱۴۷
۴	۲۸	۳,۳۳۲	۱۶	۱۳,۳۲۸
۵		۱۰,۷۸۹	۲۵	۲۹,۰۴۷

خط طاق مرتب

$$\ln(P) = \frac{4144}{M} x + \frac{1,455}{\ln A}$$

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جمعه
فروردین

20 April 2018

۳ شعبان ۱۴۳۹

۱۳۹۷/۱/۳۱

$$|E(\tau(n))| < 10^{-r} \quad -r$$

$$\int_0^{\pi/r} e^{in} \sin n \, dn$$

$$r = r, |E(\tau(n))| < 10^{-r}$$

$$|E(\tau(n))| = \frac{b-a}{h} h^r f''(a) \quad f'(a) = e^{in} \sin n e^{in} \cos n$$

$$f''(n) = |r e^{in} \cos n| < M \quad r |e^{in}| |\cos n| < M \quad \left[M = 10 \right]$$

$$\frac{\pi/r}{1/r} h^{r+10} < 0.1 \rightarrow h^r < r, r+10^{-r}$$

$$h < 1.5 r+10^{-r} = 0.15 r$$

$$\frac{b-a}{h} = h \rightarrow n \approx 11$$

۱۳۹۷/۲/۲

(ب)

$$h = \pi/r, \quad a = e, \quad b = \pi/r$$

$$f(x) = e^x \sin x$$

$$\frac{\pi}{12} \left(f(0) + f(\pi/4) + 2f(\pi/2) + 2f(3\pi/4) + f(\pi) \right)$$

$$f(\pi/4) = 2.903v$$

$$\begin{cases} y' = \frac{1}{xy} \\ y(1) = 2 \end{cases} \quad h = 0.1 \quad -9$$

~~y'~~

$$y_{n+1} = y_n + h f = y_n + \frac{0.1}{x_n y_n}$$

$$x_0 \quad x_1$$

$$1 \quad 1.1$$

$$\hookrightarrow y_1 = y_0 + \frac{0.1}{x_0 y_0} = 2.105$$

$$y_1 = y(1.1, 1) = 2.105$$

۱/۲/۴

-V

$$f(x) = 1$$

$$f(x) = 2$$

$$f(x) = 3$$

$$\int_0^h f(x) dx \approx w_1 f(h/3) + w_2 f(2h/3)$$

$$+ w_3 f(h)$$

$$\text{الف) } 4h = w_1 + w_2 + w_3$$

$$1 \cdot h^2 = h w_1 + 2 h w_2 + 3 h w_3$$

$$\left(\frac{4h}{3}\right)^3 = h^3 w_1 + 9 h^3 w_2 + 27 h^3 w_3$$