

$$\begin{cases} r^2 - 5r' = 30e^{20} \\ r'(-3) = \frac{10(1-e^{-6})}{e^{15}} \\ r'(4) = -10(1-e^{12})e^8 \end{cases}$$

$$\text{Kobab K3} \\ r = U + \Theta$$

Kobab K3 II no foda muz kuch. yub. fr-a II no muz. e noot. kozgatay

1) P, F, V

$$\begin{aligned} P &= e^{a\theta} = e^{-50} \\ f &= F \cdot P = 30e^{20} \cdot e^{-50} = 30e^{-30} \end{aligned}$$

or: yuba. toubko Ky.

$$\begin{aligned} u' &= Ae^{a\theta} + Be^{b\theta} \\ u'(-3) &= Ae^{-3a} + Be^{-3b} = 10e^{-15} - 10e^{-6} \\ u'(4) &= Ae^{4a} + Be^{4b} = 10e^{20} - 10e^8 \end{aligned}$$

$A, B = 10, -10$

$a = 5$

$b = 2$

$$\begin{aligned} u' &= 10(e^{50} - e^{20}) \\ v' &= 2e^{50} - 5e^{20} \\ w' &= 50e^{50} - 20e^{20} \end{aligned}$$

$$\begin{aligned} u'' + 5Du' - 5u' - 5u^2 + 50e^{20} &= 30e^{20} = 0 \\ u'' + v' - 5u' - 5w' &= 30e^{20} \end{aligned}$$

$$\begin{cases} u'' - 5u' = 0 \\ u'(-3) = 0 \\ u'(4) = 0 \end{cases} \quad \text{HK3} \quad \boxed{U = C} - \text{Pem.}$$

$U' = 0$

$U'' = 0$

$$r = U + \Theta = C + 2e^{50} - 5e^{20} \quad \boxed{K3}$$

$$\begin{cases} r^2 - 10r + 25r^2 - 38(40+9)e^{-30} \\ r(-1) = 37e^{-5} + 7e^{-3} \\ r(3) = -4e^{-5} - 11e^{-3} \end{cases}$$

$\lambda^2 - 10\lambda + 25 = 0$

$\lambda = 5 \text{ k p. 2}$

$(\lambda - 5)^2 = 0$

$z. o. (A\theta + b)e^{50} - \text{Pemisse}$

$0.0 = Ce^{50} + Ge^{20}$

$$\begin{aligned} r &= U + \Theta \\ &\uparrow \quad \uparrow \text{yuba. toubko Ky.} \\ \text{HK3} & \end{aligned}$$

$v = Ae^{50} + Be^{20}$

$w = 5Ae^{50} - 3Be^{20}$

$-5Ae^{50} - 3Be^{20} = 37e^{-5} + 7e^{-3}$

$-Ae^{50} + Be^{20} = -4e^{-5} - 11e^{-3}$

$\begin{cases} 5A = 37 \\ A = -4 \\ -3B = 7 \\ B = -11 \end{cases}$

$v = (A\theta + b)e^{50} + (C\theta + d)e^{-30}$

$w' = (A + 5Ab + 5b)e^{50} + (C - 3Cd - 3d)e^{-30}$

$\begin{cases} A - 5A + 5b = 37 \\ C + 3C - 3d = 7 \\ 3A + b = -4 \\ 3C - d = -11 \end{cases}$

$\begin{cases} -4A + 5b = 37 \\ 3A + b = -4 \\ -3C + d = 7 \\ 3C - d = -11 \end{cases}$

$\begin{cases} -4A + 5b = 37 \\ 3A + b = -4 \\ -3C + d = 7 \\ 3C - d = -11 \end{cases}$

$\begin{pmatrix} -4 & 5 \\ 3 & 1 \end{pmatrix} \begin{pmatrix} 1 & -5 \\ -3 & -4 \end{pmatrix} = \begin{pmatrix} 37 \\ -4 \end{pmatrix}$

$\begin{pmatrix} 1 & -5 \\ -3 & -4 \end{pmatrix} = \begin{pmatrix} 19 & 20 \\ -11 & 16 \end{pmatrix}$

$\begin{pmatrix} 1 & -5 \\ -3 & -4 \end{pmatrix} = \begin{pmatrix} 1 & -5 \\ -1 & 1 \end{pmatrix}$

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