

$$\begin{cases} t - 5t' = 30e^{20} \\ t'(-3) = \frac{10(1-e^{-6})}{e^{15}} \\ t'(4) = -10(1-e^{-12})e^8 \end{cases}$$

$$1) P, f, y$$

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

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$$\begin{aligned} v' &= Ae^{20} + Be^{20} \\ v'(-3) &= Ae^{-30} + Be^{-30} = 10e^{-15} - 10e^{-6} \\ v'(4) &= Ae^{-40} + Be^{-40} = 10e^{-20} - 10e^{-8} \end{aligned}$$

$$A, B = 10, -10$$

$$\begin{aligned} A &= 5 \\ B &= 2 \end{aligned}$$

$$v' = 10(e^{20} - e^{20})$$

$$v = 2e^{20} - 5e^{20}$$

$$v'' = 50e^{20} - 20e^{20}$$

$$U' + 5U - 5U' = 0$$

$$U(-3) = 0$$

$$U'(4) = 0$$

$$HK3$$

$$U' = 0$$

$$U'' = 0$$

$$U = C$$

$$-Pm.$$

$$U = C + 2e^{20} - 5e^{20}$$

$$K3$$

$$\begin{cases} t^2 - 10t + 25 = 0 \\ t'(-1) = 37e^{-5} + 7e^{-3} \\ t(3) = -4e^{-5} - 11e^{-3} \end{cases}$$

$$P = e^{-100}$$

$$f = -38(40+g)e^{-130}$$

$$r = U + v$$

$$HK3$$

$$v = Ae^{50} + Be^{30}$$

$$v' = 5Ae^{50} - 3Be^{30}$$

$$-5Ae^{-1} - 3B = 37e^{-5} + 7e^{-3}$$

$$-Ae^{-1} + Be^{-3} = -4e^{-5} - 11e^{-3}$$

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

$$-3B = 7 \Rightarrow B = -\frac{7}{3}$$

$$B = -\frac{7}{3}$$

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

$$v' = (A + 5A\theta + 5b)e^{50} + (C - 3C\theta - 3d)e^{-30}$$

$$A - 5A + 5b = 37$$

$$C + 3C - 3d = 7$$

$$3A + b = -4$$

$$3C - d = -11$$

$$-4A + 5b = 37$$

$$4C - 3d = 7$$

$$3A + b = -4$$

$$3C - d = -11$$

$$-4A + 5b = 37$$

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