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4.

10 - 15

80-90%

62-5:620.9

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$$\begin{aligned}
& u = u(t) \\
& \partial X(x, u, t) / \partial t = f[X(x, u, t), u, t], \\
y(x, u, t) = C(x, u) X(x, u, t) \\
& \sigma(x, u), \quad \zeta(x, u), \\
& \lambda(x, u), \quad t_c(x, u) \\
& B(x, u) = \partial f[X(x, u, t), u, t] / \partial u \Big|_{x=0, u=0, t=0} \\
& \partial X(x, u, t) / \partial t = A(x, u) X(x, u, t) + B(x, u) u, \quad y(x, u, t) = C(x, u) X(x, u, t) \\
& \rho_k(x, u)
\end{aligned}$$

$$\begin{aligned}
& F_2(x, u) \quad F_1(x, u) \\
U = (U_1; U_2) \quad V = (V_1; V_2) \\
\ll, \ll, \ll, \ll, \ll
\end{aligned}$$

$$U > V = \begin{cases} 1, & U_1 < V_1 \vee U_1 = V_1 \wedge U_2 > V_2, \\ 0, & U_1 > V_1 \vee U_1 = V_1 \wedge U_2 \leq V_2. \end{cases}$$

$$G(x) = \max_i F^{(i)}(x)$$

$$\min_x G(x)$$

519.816

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