8. Equivalent representations

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Change of coordinates:

$$\begin{cases} \dot{z} = \frac{\partial T}{\partial x} \Big|_{x=T^{-1}(z)} + \frac{\partial T}{\partial x} \Big|_{x=T^{-1}(z)} \\ = \int_{z}^{z} (z) + \varrho(z) u \\ y = CT^{-1}(z) = h(z) \end{cases}$$

if
$$T(x) = Tx$$
 $|T| \neq 0 = D$ $f(z) = TAT^{-1}z$
 $T^{-1}(z) = T^{-1}z$ $g(z) = TB$
 $h(z) = CT^{-1}z$