Let | Example 1.3

6.
$$u(t) = (1, t) \cdot 0$$
 $x(t) = [1 - 1]^T$ out put ? Vespone?

 $\dot{x}(t) = Ax(t) + Buct) = \begin{bmatrix} 0 & 1 \\ 0 - 2 \end{bmatrix} x(t) + \begin{bmatrix} 0 \\ 2 \end{bmatrix} u(t)$
 $\dot{y}(t) = (1 - 1)^T x(t) + (1 - 1)^T x(t) + (1 - 1)^T x(t)$
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 $\dot{y}(t) = [1 - 1]^T x(t) + (1 -$

$$\begin{aligned}
&= \left[\frac{2}{5(5t^{2})}\right] \frac{1}{5} = \left[\frac{2}{5^{2}(5t^{2})}\right] \\
&= \left[\frac{2}{5(5t^{2})}\right] \frac{1}{5} = \left[\frac{2}{5^{2}(5t^{2})}\right] \\
&= \left[\frac{2}{5(5t^{2})}\right] = \left[t - \frac{1}{2} + \frac{1}{2}e^{2t}\right] \\
&= \left[1 + 2 - 2e^{-2t}\right] \left[1 + \left[t - \frac{1}{2} + \frac{1}{2}e^{2t}\right]\right] \\
&= \left[1 + 2 - 2e^{-2t}\right] \left[1 + \left[t - \frac{1}{2} + \frac{1}{2}e^{2t}\right]\right] \\
&= \left[1 - 2 + 2e^{-2t}\right] \left[1 - e^{-2t}\right] \\
&= \left[1 - 2 + 2e^{-2t}\right] \left[1 - e^{-2t}\right] \\
&= \left[1 - 2 + 2e^{-2t}\right] \left[1 - e^{-2t}\right] \\
&= \left[1 - 2 + 2e^{-2t}\right] \\
&= \left[1 - 2 + 2 + 2e^{-2t}\right] \\
&= \left[1 - 2 + 2e^{$$