THE UNIVERSITY OF TEXAS AT SAN ANTONIO
EE 5143
LINEAR SYSTEMS AND CONTROL

QUIZ # 8 Ahmad F. Taha November 2, 2017

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Is the following system controllable or not? Justify your answer. Also, define what it means for an LTI CT system to be controllable.

$$\dot{x}(t) = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 2 & 0 \\ 0 & 2 & 4 \end{bmatrix} x(t) + \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix} u(t).$$

Your Solution: