## EE 311 Signals.... (Special Assignment)

Write down the solution for the LCCDE with Input Derivative of Eqn. 2.132

## 2-8.2 LCCDE with Input Derivative

We now consider the more general case of a second-order LCCDE that contains a first-order derivative on the input side of the equation

$$
\begin{equation*}
\frac{d^{2} y}{d t^{2}}+a_{1} \frac{d y}{d t}+a_{2} y(t)=b_{1} \frac{d x}{d t}+b_{2} x(t) \tag{2.132}
\end{equation*}
$$

