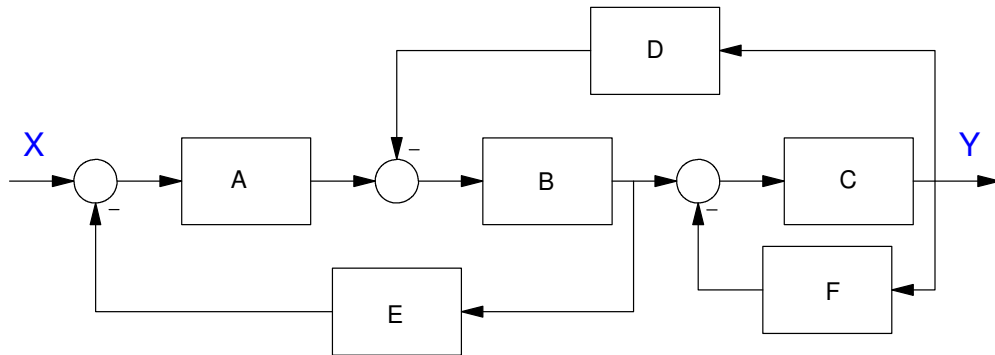


Homework #5: ECE 461/661

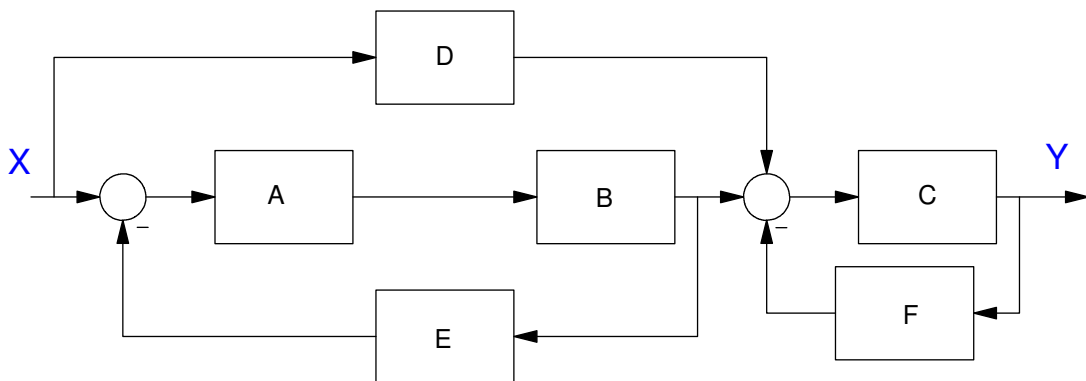
Block Diagrams, Canonical Forms. Due Monday, September 22nd

Block Diagrams

1) Determine the transfer function from X to Y



2) Determine the transfer function from X to Y



Canonical Forms

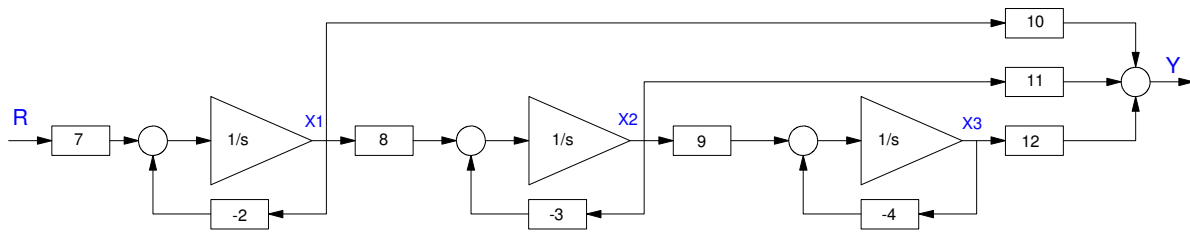
3) Give two different state-space models that produce the following transfer function

$$Y = \left(\frac{30}{(s+2)(s+3)(s+4)} \right) U$$

State-Space

4) Express the following system in state-space form

- Find the transfer function from R to Y



5) Express the following system in state-space form

- Find the transfer function from R to Y

