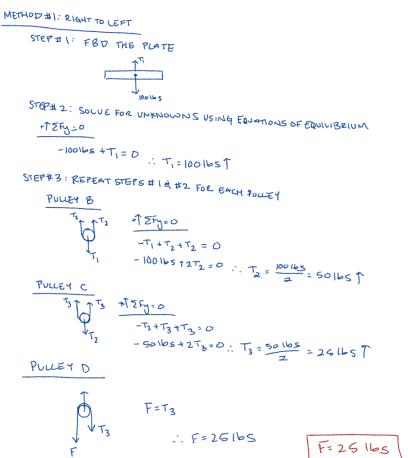
## Statics Frames and Machines Example 1

Determine the Force, F, needed to hold plate A in equilibrium for the following pulley system:



- ALWAYS START WITH DRAWING A FREE BODY DIAGRAM
- FOR FRAMES AND SIMPLE MACHINES, BREAK DOWN THE SYSTEM INTO INDIVIDUAL COMPONENTS
- · FOR THIS EXAMPLE WE NEED TO FBD THE PLATE AND EACH PULLET
- YOU CAN START ON THE RIGHT AND MOVE LEFT, OR START AT THE LEFT AND MOVE RIGHT. BOTH METHODS WILL GIVE YOU THE SOME FIVEL ANGWER.
- EVERYONE HAS THEIR OWN PREFERENCE, BUT ITHINK IT'S EASIER TO STAIRT WITH THE ELEMENT THAT HAS A KNOWN VALUE (THE PLATE), HOWEVER, I WILL DEMONSTRATE BOTH WAYS SO YOU LAN SEE AND (HOOSE FOR



METHOD # 2: LEFT TO RIGHT

