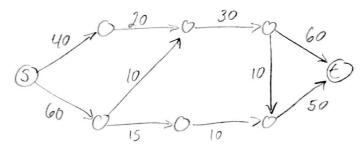
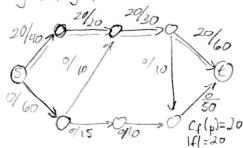
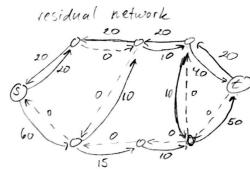
## 4. Use Ford Fulkerson to find the min-cut



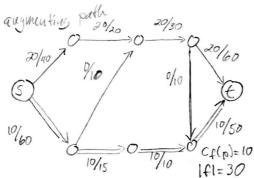


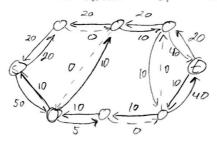


Cf(p)=10

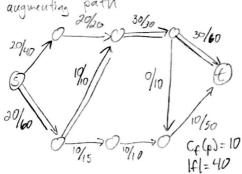


network residual

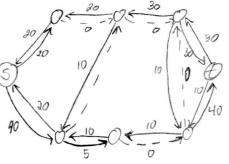




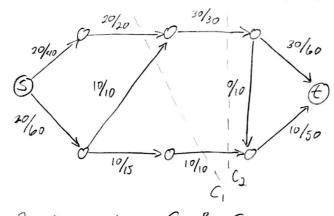
augmenting path



residual network



augmenting more NO



$$C(S,T) = 20 + 10 + 10 = 40$$

$$C_{2}$$
:  $f(S,T) = 30 + 10 = 40$   
 $c(S,T) = 30 + 10 = 40$ 

$$f(s,T) = c(s,T)$$

$$\begin{cases} f(S,T) = c(S,T) \end{cases}$$