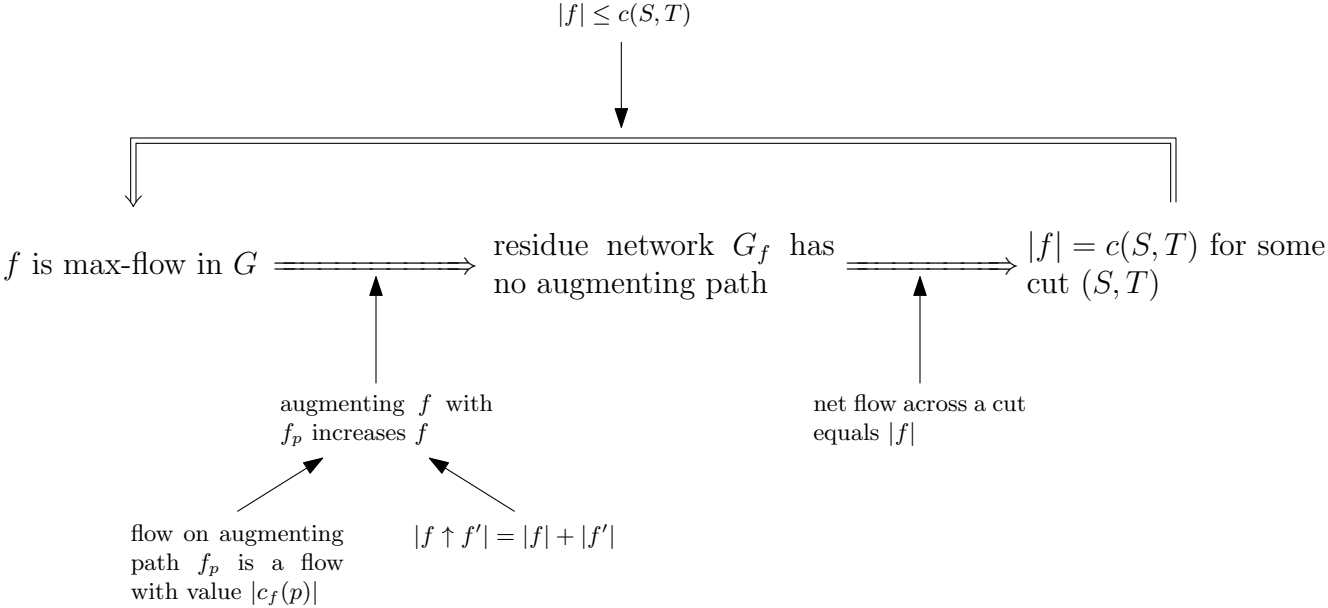
$|f| \le c(S,T)$
f is max-flow in G
residue network G_f has no augmenting path
$|f| = c(S,T)$ for some cut (S,T)
augmenting f with f_p increases f
net flow across a cut equals $|f|$
flow on augmenting path f_p is a flow with value $|c_f(p)|$
$|f \uparrow f'| = |f| + |f'|$