Mark Abraham

Assignment 4A

(4.22)

Port Cities V: E] Visit city \dot{z} earns $P_{\dot{z}}$ dollars Transportation Cost $C_{ij} > 0$

cyclic

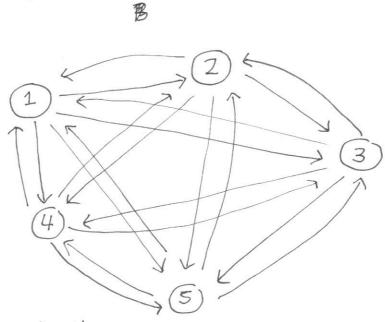
$$G = (V, E)$$
 $V = city$
 $E = path route$

C = cycle

profit to cost ratio $r(c) = \frac{\sum_{(i,j) \in C} P_j}{\sum_{(i,j) \in C} C_{ij}}$ $(i,j) \quad w_{ij} = rc_{ij} - P_j$







- Is a cycle composed of the whole graph or the can

It be a subset of graph 6?

- Why is it Pj not Pij?

- How does the binary search of maximum value of r work?

- In rcij-Pj why doe we only rote take the ratio

of Cij to not pj?
- Can a cycle take any route as long as it ends up at beginning