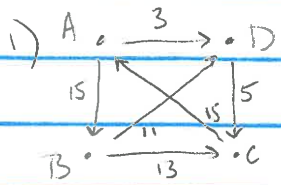


Chapter 6, homework solutions



$A \triangleright D (11 > 5)$

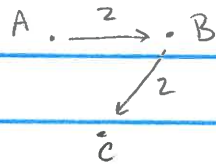
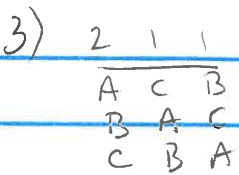
$A \triangleright B (15 > 13)$

$C \triangleright A (15 > 13)$

$W = \{C\}$

2) graph in book seq winner A B C D E F $S = D_c = \{C, B, A\}$
 $B \triangleright C (3 > 1)$

$W = \{A, B\}$



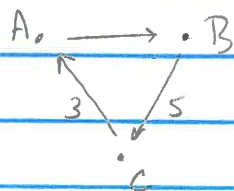
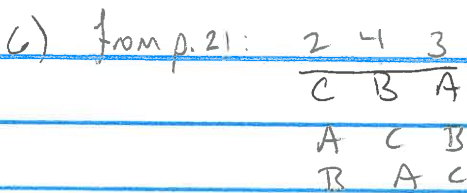
$A \triangleright B (2 > 0)$

$A \triangleright C (2 > 0)$

$W = \{A\}$

5) a) Any SC has an unmatched beatpath against any NSC since, in one-on-one comparison $SC \rightarrow NSC$ (and the reverse is not possible), so SC has a beatpath against NSC. The NSC has no beatpath against any SC, since no NSC can beat a SC in one-on-one comparison.

b) No beatpath against a SC can pass through a NSC, again since NSC can beat only other NSC, but no NSC can beat a SC, so there would be no way for beatpath to get into Smith set once it is outside of it.



$B \triangleright C (5 > 1)$

$B \triangleright A (3 > 1)$ or $C \triangleright A (3 > 1)$

so $W = \{B\}$

but C is a losing spoiler since if C drops out, $A \triangleright B (1 > 0)$
 and $W = \{A\}$.