4)

player 1

veto Z | veto Y | veto X

P2: veto Y, veto X

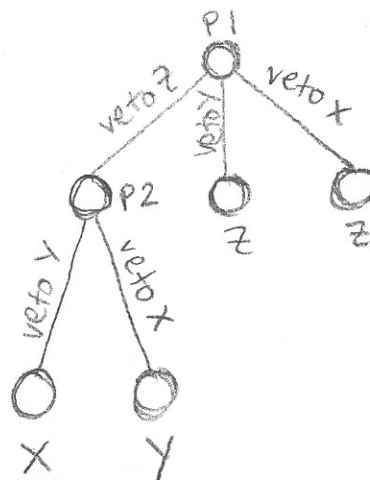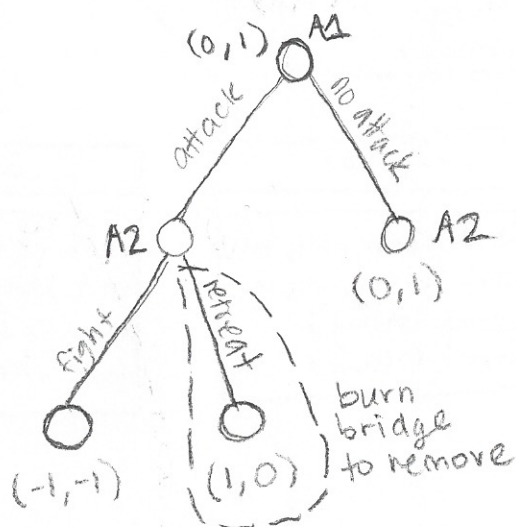P2: veto Z, veto X
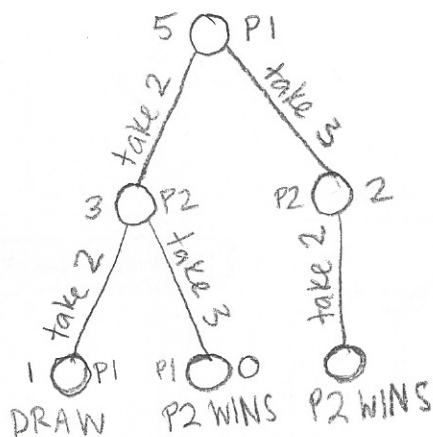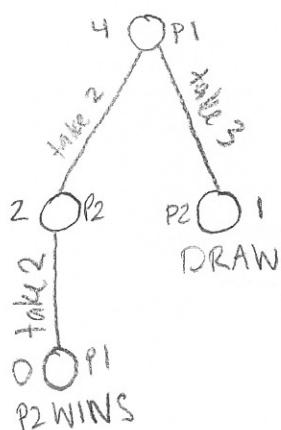
P2: veto Z, veto Y

X   Y   X   Z   Y   Z

P1: X > Y > Z
P2: Z > Y > X

NE: Player 1 will choose to veto Z, as it is their least favorite policy, to remove it from the running. Player 2 will then veto X, their least favorite, to leave us with policy Y, a middle ground for the players.

5)

(0,1) A1

attack / no attack

A2 .... A2 (0,1)

fight / retreat

(-1,-1)   (1,0)   burn bridge to remove

P1

veto Z | veto Y | veto X

P2

veto Y / veto X

X   Y   Z   Z

6)

4 P1
take 2 / take 3
2 P2   P2 1 DRAW
take 2
0 P1
P2 WINS

5 P1
take 2 / take 3
3 P2   P2 2
take 2 / take 3   take 2
1 P1   P1 0   P2 WINS
DRAW P2 WINS

	A	B
A	2,9	0,6
B	6,0	9,8

STATE 1

	A	B
A	8,2	9,0
B	0,9	2,8

STATE 2

$U(A) = \frac{8+0+2+9}{4} = 5$

$U(B) = \frac{6+8+0+8}{4} = 5.5$