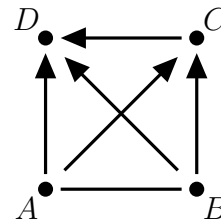


Quiz 5

1. Consider the following example for questions (a)–(g).

2	2	1	1
<i>B</i>	<i>C</i>	<i>A</i>	<i>D</i>
<i>A</i>	<i>A</i>	<i>D</i>	<i>B</i>
<i>C</i>	<i>B</i>	<i>B</i>	<i>A</i>
<i>D</i>	<i>D</i>	<i>C</i>	<i>C</i>



(a) What is the Smith set for this example? (1 pt)

$S = \{ \text{_____} \}$

(b) Who is/are the winners for plurality? (1 pt)

$W_P = \{ \text{_____} \}$

(c) Does this preference schedule serve as a counterexample to the following claim:

Claim: Plurality is Smith fair.

(2 pts) Circle one Yes No

Explain briefly:

(d) Who wins by Runoff in this example? (1 pt)

$W_R = \{ \text{_____} \}$

(e) Is *B* a weak spoiler for Runoff? (1 pt) Circle one: Yes No

(f) Is *C* a weak spoiler for Runoff? (1 pt) Circle one: Yes No

(g) Is *D* a weak spoiler for Runoff? (1 pt) Circle one: Yes No

2. Prove: If *C* is a Condorcet candidate then the Smith set is $S = \{C\}$. Write all definitions. (2 pts)

PLEASE WRITE YOUR NAME ON THE BOTTOM OF THIS PAGE

Name: _____