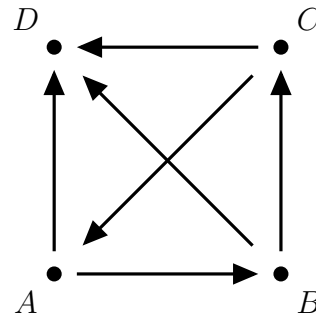


Quiz 4

1. Consider the following preference schedule, with comparison graph on the right, and answer the ensuing questions.

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



(a) List all primitive dominating sets for this example (1pt each).

$\mathcal{D}_A =$

$\mathcal{D}_B =$

$\mathcal{D}_C =$

$\mathcal{D}_D =$

(b) Are there any other dominating sets for this example? Circle one (1 pt): Yes No

(c) What is the Smith set? (1 pt) $S =$ _____

(d) What is the winner set for plurality? (1 pt) $W_P =$ _____

2. Circle T if the claim is true, F if the claim is false. (1pt each)

(a) If X is a Condorcet candidate, then X is a Smith winner. T F

(b) If X is a Majority candidate, then X is a Smith winner. T F

(c) If X is a plurality winner, then X is a Smith winner. T F