

Pset 1 review

Q1

1. Find the median voter on the following committees, with the id points as given:

- a. $A=200, B=100, C=25, D=16, E=22, F=63, G=57$.
- b. $A=200, B=100, C=25, D=16, E=22, F=63, G=75$.
- c. $A=200, B=100, C=57, D=16, E=22, F=63, G=57$.

- 1. Sort in ascending/descending order to find the median
- 2. Question c is tricky, because two committee members, C and G, occupy the same place.

Q2

2. Suppose that each of the preceding committees voted on the following alternatives: $X=60$, $Y=65$. Assume that the utility curves are symmetrical and that voting proceeds under majority rule. Find the resulting political outcome for each committee.

Median	X	Y
G=57	60	65
F=63	60	65
C, G=57	60	65

Q3a

3. In the 2010 Cooperative Congressional Election Study, respondents were asked how they felt about certain controversial issues facing the country. The questions and the distribution of answers are given below. Based on this information, what is your best estimate about how the median American voter felt about these issues in 2010?

a. *Abortion*. There has been some discussion about abortion during recent years. Which one of the opinions on this page best agrees with your view on this issue?

	Cumulative:
- By law, abortion should never be permitted (12.2%)	12.2
- The law should permit abortion only in case of rape, incest (28.6%)	40.8
- The law should permit abortion for reasons other than rape (15.5%)	56.3
- By law, a woman should always be able to obtain an abortion (43.8%)	100.1

Q3b

a. *Jobs versus the environment.* Some people think it is important to protect the environment even if it costs some jobs or otherwise reduces our standard of living. Other people think that protecting the environment is not as important as maintaining jobs and our standard of living. Which is closer to the way you feel, or haven't you thought much about this?

- Much more important to protect environment even if lose jobs (14.5%)
- Environment somewhat more important (18.8%)
- About the same (28.4%)
- Economy somewhat more important (23.7%)
- Much more important to protect jobs, even if environment is worse (14.6%)

Cumulative:

14.5

33.3

61.7

85.4

100.0

Q4

4. Consider committee members with ideal points arrayed as follows. What policy—either a single point or a range of points—constitutes a Condorcet winner?

a. A=200, B=100, C=25, D=16, E=22.

b. A=200, B=100, C=25, D=16, E=22, F=63.

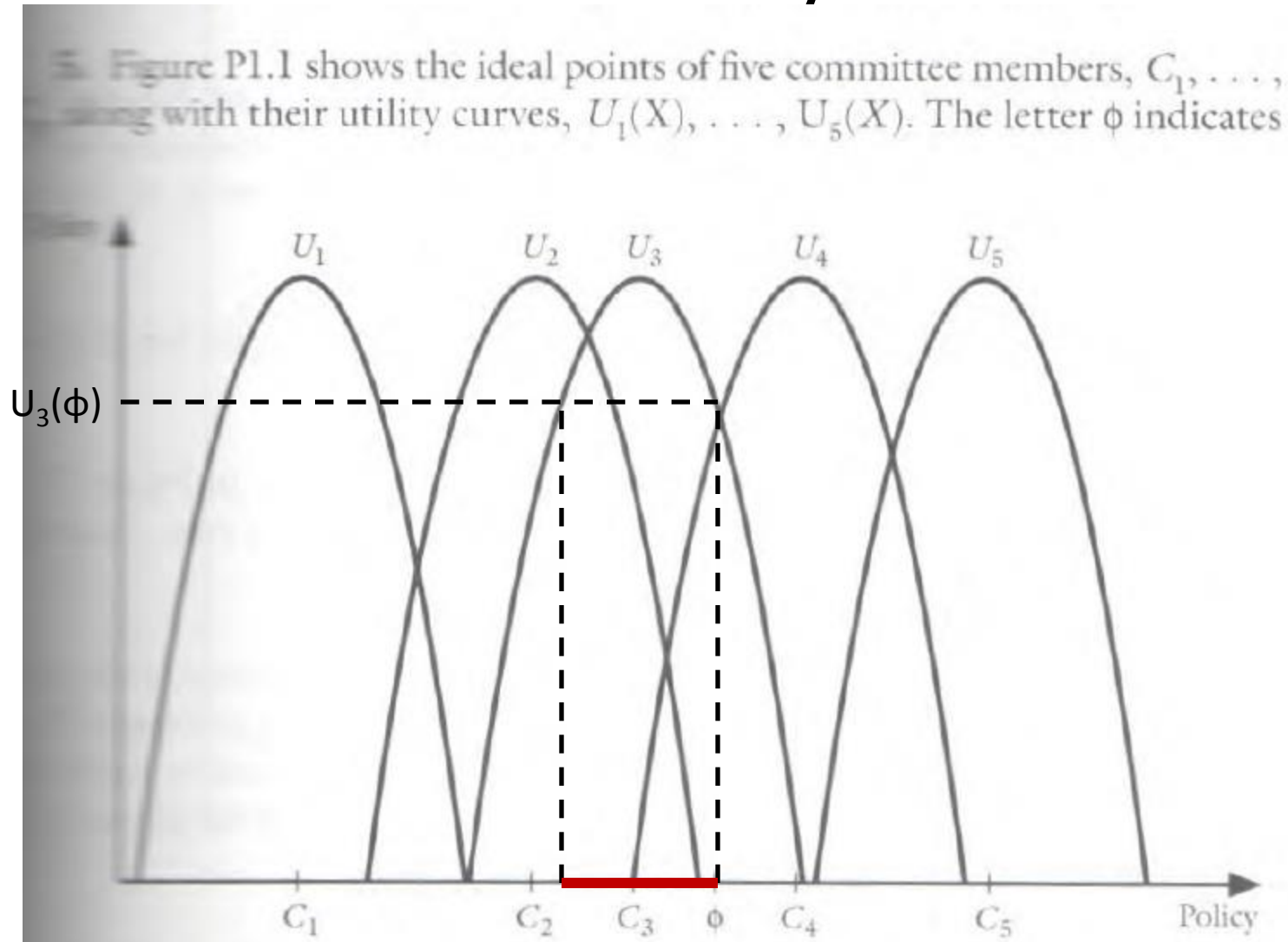
c. A=200, B=100, C=25, D=16, E=22, F=63, G=57, H=22

a: D=16 E=22 C=25 B=100 A=200

b: D=16, E=22, C=25, F=63, B=100, A=200

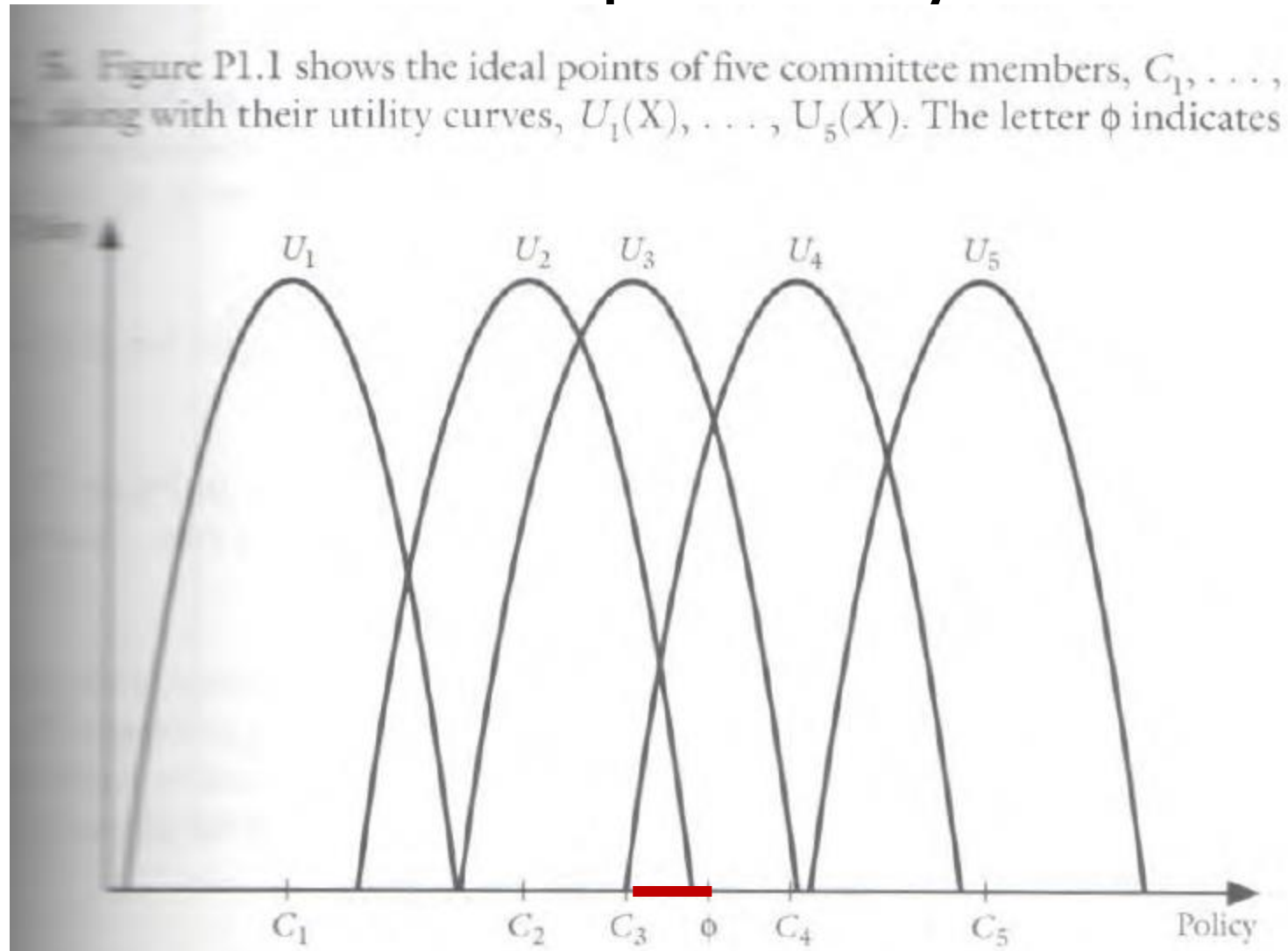
c: D=16 E=H=22 C=25 G=57 F=63 B=100 A=200

Q5: Draw the win set against ϕ From the utility curves



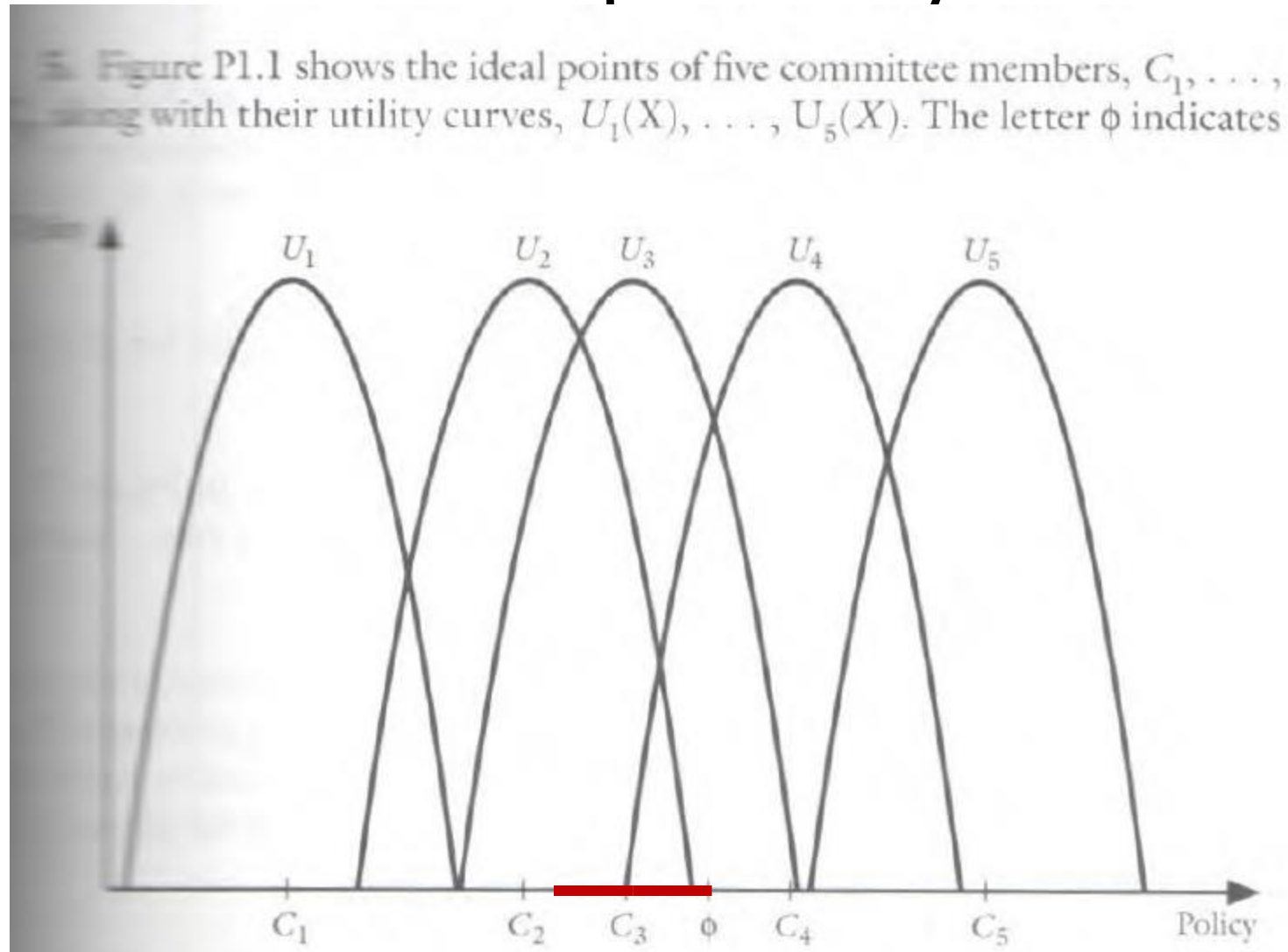
Q5: Draw the win set against ϕ

From proximity



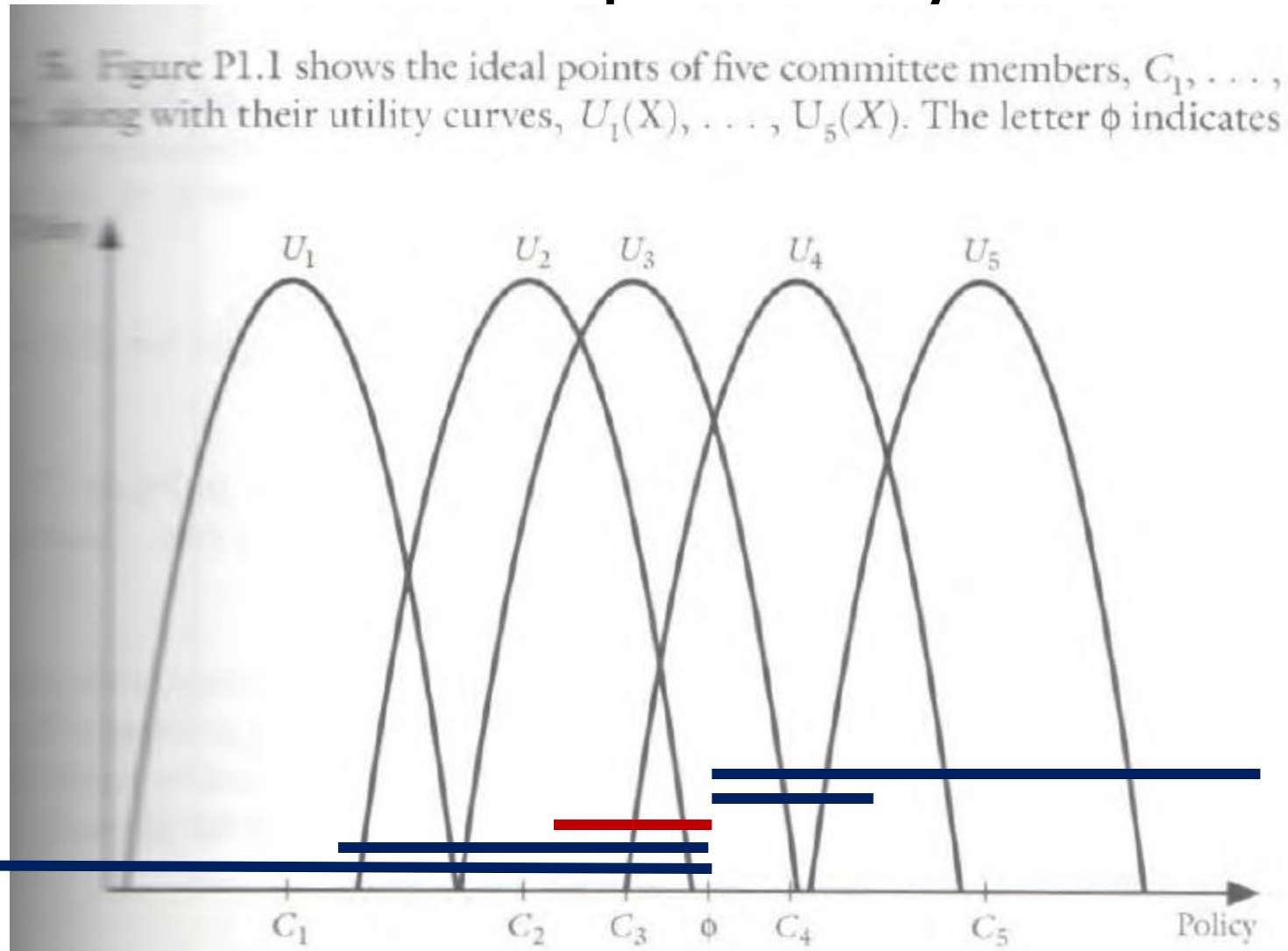
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