

MATH 105

Quiz 4

Spring 2018

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name

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section

Dr. Grzegorz Kubicki

**For full credit, show all your work and explain your answers.**

A selection committee must choose between Atlanta (A), Boston (B), and Chicago (C) as the site of a national convention. Their preference schedule is:

Number of members	7	4	3	5
First Choice	C	A	B	A
Second Choice	B	C	C	B
Third Choice	A	B	A	C

(a) (4 pts) What city is chosen if the committee uses the Plurality Method?

(b) (10 pts) What city is chosen if the committee uses the Borda Count Method?

(c) (8 pts) What city is chosen if the committee uses the Method of Pairwise Comparisons?

(d) (3 pts) Does this example show that the Plurality Method violates the Condorcet Criterion? Explain why or why not.