

## MATH 1340 – Problem Set 5

Due Tuesday, July 14, in class.

**1.** Recall the **plurality approval method** introduced in Lecture 10 (also, Section 6.3 of R&U): Given an approval profile, the method selects as the winner(s) the candidate(s) with the most “yes” votes. **Using the definitions in Lecture 10**, or Section 6.3 of R&U, of criteria for approval methods, show that the plurality approval method is:

- (a) anonymous
- (b) neutral
- (c) nearly decisive
- (d) monotone
- (e) independent

**2.** Do problems 7.6, 7.10, 7.16 in Ch. 7 of Robinson & Ullman.

**3.** Do problem 8.6 in Ch. 8 of Robinson & Ullman.