Instructions: Show all work. Be sure to answer all parts of each question.

1. Consider the preference table below. Determine the winner of the election by the plurality with elimination method. Then use your results to rank all the remaining candidates.

|                        | 28 | 30 | 5 | 5 | 16 | 16       |
|------------------------|----|----|---|---|----|----------|
| 1 <sup>st</sup> choice | Α  | С  | Α | С | В  | B        |
| 2 <sup>nd</sup> choice | В  | В  | С | A | C  | Δ        |
| 3 <sup>rd</sup> choice | С  | Α  | В | В | A  | <u> </u> |

2. Suppose that in the table above, the 5 voters that voted A first and C second, change their votes to C first and A second, as shown below. What is the result of the election now and does this violate the monotonicity criterion? Why or why not?

|                        | 28 | 30 | 10 | 16 | 16 |
|------------------------|----|----|----|----|----|
| 1 <sup>st</sup> choice | A  | С  | С  | В  | В  |
| 2 <sup>nd</sup> choice | В  | В  | Α  | С  | Α  |
| 3 <sup>rd</sup> choice | С  | Α  | В  | А  | С  |

Burno.

This does violate the monotonicity circles or because C received more first place votes than last time, but lost the election