

Instructions: Show all work. Use exact answers unless otherwise directed to round.

1. Use the following preference schedule to determine the winner of the election according to the indicated method.

	22	17	21	18	22
1	B	T	R	S	J
2	T	B	S	R	T
3	S	S	J	B	B
4	J	J	T	J	R
5	R	R	B	T	S

- a. By Plurality Method.

J & B wins (most votes)
tie

- b. By Borda Count Method.

$$B: 22 \times 5 + 17 \times 4 + 21 \times 1 + (18 + 22) \times 3 = 319$$

$$T: 22 \times 4 + 17 \times 5 + 21 \times 2 + 18 \times 1 + 22 \times 4 = 321 \leftarrow$$

$$S: 22 \times 3 + 17 \times 3 + 21 \times 4 + 18 \times 5 + 22 \times 1 = 313$$

$$J: 22 \times 2 + 17 \times 2 + 21 \times 3 + 18 \times 2 + 22 \times 5 = 287$$

$$R: 22 \times 1 + 17 \times 1 + 21 \times 5 + 18 \times 4 + 22 \times 2 = 260$$

T is winner