

COT 3100 Fall 2020 - Homework #7 Grading Criteria

- 1) 9 pts - part a - 1 pt, give the point if their answer is correct, 0 pts if incorrect
part b - 6 pts, here are criteria for the two approaches:

additive approach: 2 pts for all perms that start or end with a vowel
3 pts for perms that start AND end with a vowel
1 pt to subtract the two and get the right answer

Subtractive approach: 1 pt for all perms period
4 pts for all perms that start AND end with a cons.
1 pt to subtract the two and get the right answer

Part c - 1 pt to mention superletter idea, 1 pt for answer

- 2) 2 pts - 1 pt numerator, 1 pt denominator

- 3) 15 pts - 3 pts each part:

- a) 1 pt identify n, 1 pt identify r, 1 pt plug in formula correctly
- b) 1 pt identify new n, 1 pt identify r, 1 pt plug in formula correctly
- c) 1 pt identify new n, 1 pt identify r, 1 pt plug in formula correctly
- d) 1 pt identify new n, 1 pt identify r, 1 pt plug in formula correctly
- e) 2 pts sub out second item, 1 pt add back in stuff double subtracted out

- 4) 4 pts - 2 pts for the reasoning, 2 pts for the answer

- 5) 4 pts - 1 pt for each individual set added, 2 pts for subbing out interesections by 2, 1 pt for adding back intersection of all 3, just take off 1 pt total for any arithmetic errors.

- 6) 4 pts - 2 pts for first four positions, 1 pt for members at large, 1 pt to multiply answers.

- 7) 7 pts - 1 pt base case, 1 pt IH, 1 pt IS, 3 pts to write out Cartesian Product grid, 1 pt to show how to order those grid squares.

- 8) 5 pts - Grade like the last bio, as long as it's reasonable and has the details I asked for, give full credit.

Writing the whole thing -10 penalty subtracted from regular final score.

Note: No penalty if typed and one or two drawings or written sections are attached inside pdf or doc as needed.