

COT 3100 Fall 2022 - Homework #8 Grading Criteria

- 1) 10 pts – (a) 1 pt, (b) 1 pt, (c) 2 pts, (d) 3 pts, (e) 3 pts, give full credit if correct, take off 1 pt if there's a minor error. **Remember every combination can be expressed in at least 3 different ways, so be CAREFUL to check for alternate forms.**
- 2) 5 pts - 2 pts for explaining the idea of the extra variable, 3 pts for the solution
- 3) 10 pts – 2 pts plugging in $2a+1$ for odd ints to solve for # of odd in solutions, 3 pts for completing that train of thought at getting $C(51, 3)$. 3 pts for all solutions $(C(103,3))$. 2 pts to subtract these two.
- 4) 5 pts - 3 pts for finding $P(B)$, 1 pt for stating $P(A \text{ and } B)$, 1 pt for the final answer.
- 5) 5 pts – 1 pt for sample space, 3 pts for both numerator terms total, 1 pt for dividing
- 6) 5 pts – lots of ways to do this, automatic 5/5 if correct answer with correct explanation, **do not give full credit if answer isn't simplified to a fraction in lowest terms.** Most ways to solve this involve 2 cases, do 2 pts per case, and 1 pt to put together the final answer.
- 7) 5 pts – 1 pt sample space, 1 pt deduction that only 2, 3, 4, 6 in the answer with 2 repeats, 1 pt for 6 choices for the two pairs, 1 pt for the number of permutations of 2346xy, 1 pt for final answer
- 8) 5 pts - Grade like the last bio, as long as it's reasonable and has the details I asked for, give full credit.