

Fall 2018 COT 3100 Homework #4 Grading Criteria - Total 20 points

Two questions to grade carefully:

Question #2 (10 pts)

Question #4 (5 pts)

Q2 (10 pts) - 2 pts Euclidean, 3 pts for Extended, 2 pts to extra all solutions, 2 pts for part (b) using part (a), 1 pt for part (c) to extract the correct solution and map it in range.

Items to comment upon: Point out any algebra errors. If students don't immediately reduce expressions, comment that they ought to always get back down to two terms before substituting again. If students don't properly add/subtract offsets, comment on that, as well as how to map -76 to positive 179.

Q4 (5 pts) - 1 pt to plug in known info, 2 pts to square n , 1 pt to factor out $8k+4$, 1 pt to finish out the proof by showing that $x((2k+1)x+1)$ is even.

Items to comment on: proper use and designation of variables. Incorrect algebra. Proper use of mod or divisibility.

Questions 1, 3, 5, 6, 7, 8 - very quickly eyeball and award 0, 1, 2, 3, 4 or 5 points out of 5. Only give full credit if all 6 questions are answered and #1, #3 are answered correctly and the writeup is reasonable.