

Fall 2019 COT 3100 Homework #6 Grading Criteria - Total 20 points

Grading: Grade each of these three questions closely, out of 5 pts:

Q1: 5 pts: 1 pt for stating BC, IH and IS
1 pt split of harmonic # into two sums
1 pt use IH
1 pt bound second sum
1 pt finish problem

Comment on the correct translation from a harmonic number to a sum as well as the proper way to split sums (if the student didn't do these correctly). Also, comment on working on two sides of an equation (they shouldn't do this) and improper use of the inequality sign.

Q2: 5 pts: 1 pt for stating BC, IH and IS
1 pt to split into $f(f^m)$ or $f^n(f(n))$
1 pt to use IH in either way
2 pts algebra

Comment on incorrect use of function composition or plugging into a function or algebra that is unnecessarily difficult.

Q5: 5 pts: 1 pt for parts a, b and c, 2 pts for part d, give the 1 pt if they are pretty close, for part d give 2 pts if 90% correct or better.

Comment on the reasoning given (words), especially if the student doesn't have enough words to justify where the answer came from.

Questions 3, 4, 6 and 7 - very quickly eyeball and award 0, 1, 2, 3, 4 or 5 points out of 5. Only give full credit if the answer for #3 is correct and the write-up for Emmy Noether is reasonable.