

Fall 2022 CIS 3362 Homework #5 Grading Criteria

- 1) 6 pts – 1 pt for each term, 1 pt for getting all terms right
- 2) 8 pts – give full credit if consistent with their answer to #1, take off 1 pt per error
- 3) 8 pts – 2 pts for plugging in appropriate values into Fermats, 4 pts for rewriting the exponent so that terms drop off, 1 pt for 1296, 1 pt for reducing via mod
- 4) 8 pts – 3 pts phi calculation, 3 pts to rewrite exponent appropriately, 2 pts for final answer
- 5) 10 pts – 2 pts for getting 35, 2 pts for checking mod isn't 1 or -1, 2 pts for each of the next three steps
- 6) 20 pts – 2 pts for calculating starting pt of 402, 2 pts for each row of the table (so 14 pts total), 4 pts for final factorization
- 7) 40 pts – Give full credit if they have code and it works to produce the right answer, 642.
If the answer isn't correct, look for the following components to give partial credit:

Gcd function: 5 pts

Phi function attempt: 10 pts

Storing previous values of f function and using those to build new ones: 10 pts

If you think someone was really close and you can see their bug, feel free to take off a few points for their bug instead.