

MATH 396 FINAL EXAM PROBLEM ASSESSMENT RUBRIC

Problem Solving

1 point		2 points	3 points	4 points
Interpretation	Showed no understanding of the math in the problem.	Showed just a little understanding of the math in the problem. Completes a small part of the problem.	Shows some understanding of the math in the problem. Completes part of the problem.	Understands all of the math in the problem. Completes all of the problem.
Strategy	Does not know how to set up the problem. OR No evidence of strategy. OR Strategy didn't work.	Uses a strategy that uses luck instead of skill, or doesn't provide enough detail to determine whether it was luck or skill.	Picks a sound strategy that will solve some, but not all, of the problem.	Picks a sound strategy, approaches the problem systematically, achieving success through skill, not luck and, if used, guess-and-check involves good reasoning and informed guessing.

1 point		2 points	3 points
Accuracy	Has made many errors or shows no math.	Some work is accurate. May have one or two errors or shows very little arithmetic.	Work on main problem is accurate and contains no arithmetic mistakes.

Communication

Completeness	Writes very little to explain how the answer was achieved.	Provides explanation, but no calculations, shows calculations but without explanation about why they were done, or the path through the work is only partly shown.	Explains most of steps taken to solve the problem and rationale for them, with enough detail for another student to understand. Shows all key calculations.
Clarity	Explanation is very difficult to follow.	Explanation isn't totally unclear, but another student wouldn't follow it easily, spelling errors / typos make it hard to understand or uses incorrect or has missing units.	Attempts to make explanation readable by a peer. Shows effort to use good formatting, spelling, grammar, typing. Uses correct units where appropriate and uses correct mathematical language.

Display

Presentation	Writing is messy and hard to read, solution is not clearly organized on the page, and diagrams/charts/tables are not neatly drawn and clearly labeled.	Writing is messy and hard to read, solution is not clearly organized on the page or diagrams / charts / tables are not neatly drawn and clearly labeled.	Writing is clear and neat, solution is clearly organized on the page and diagrams/charts/tables are neatly drawn and clearly labeled.
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