

HOMWORK GRADING

The following rubric (developed by sarah-marie belcastro of Xavier University based on “How Doug Marks Papers” by Doug Shaw) will be used to evaluate homework problems.

- 5:** All parts of the problem are present. The solution is complete or near-complete and logically formulated. Explanations are clear, notation is correct and consistent, and conceptual understanding is apparent. The solution is not necessarily perfect; minor write-up problems, grammar errors, or arithmetic errors may be present.
- 4:** Almost all parts of the problem are present. The solution is complete or near-complete and logically formulated. Explanations are mainly clear, notation is mostly correct and consistent, and conceptual understanding is apparent. Careless mathematics error may be present (for example, algebra, arithmetic). An intelligent, thoughtful, but somewhat incorrect approach may receive this score. The difference between a 4 and a 5 is that the 4-solution has one significant flaw. The difference between a 4 and a 3 is that a 4-solution exhibits better conceptual understanding.
- 3:** The solution is logically formulated with clear explanations, although one part of the problem may be missing. Or, the solution is complete and explanations are clear but there are serious logical flaws. Or, the solution may be complete and logically formulated but the explanations are unclear or lacking. Conceptual understanding of essential ideas is adequate. Many careless mathematical errors may be present (for example, algebra, arithmetic). Details are confused or missing.
- 2:** Explanation is lacking. Or, the solution shows serious misconceptions and some correct reasoning. Or, many parts of the problem are not present. Conceptual understanding is inadequate. Procedural errors are present. Or, logical/relational steps are missing. The difference between a 2 and a 3 is that a 2-solution does not exhibit adequate conceptual understanding of the essential details. The difference between a 2 and a 1 is that a 2-solution has some explanation, or has some correct reasoning.
- 1:** Explanation is completely missing. Or, many parts of the problem are not present. Or, the solution contains serious logical flaws, and lacks some explanation. Conceptual understanding is inadequate. Procedural errors are present, or logical/relational steps are missing. Poor response to the questions posed.
- 0:** Solution is missing. Or, solution is minimal and makes no sense.