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GUIDELINES FOR GRADING

Problem 1, 2, and 3, assessing students' abilities to distinguish between inductive and deductive reasoning and provide examples, were each graded on a 0-6 point scale:

0 points: not attempted

1-2 points: attempted, but incorrect, and explanation incomplete/did not refer back to characteristics

3-4 points: correct answers and examples, but explanation incomplete/did not refer back to characteristics OR incorrect answer, but good (if mistaken) attempt at explanation that did refer back to the characteristics

5-6 points: correct answers and examples, with complete explanation

Problems 4 and 5, assessing students' ability to use Polya's four step problem solving process were graded on a rubric which was provided to the students as part of the assignment:

Your score for each problem is...	If...
0 points	You omit the problem OR You write down a solution which is incorrect, with no explanation
1 point	You write down a solution which is correct, BUT provide no explanation of how you arrived at it
2 to 3 points	You give a correct solution to the problem, and provide some explanation as to how you arrived at it, BUT your explanation is not organized in the form of Polya's four steps
4 points	You give a correct solution to the problem, AND provide an explanation organized in the form of Polya's four steps, BUT your explanation is lacking in detail to the point where someone provided with the problem would not be able to tell from your solution how it related to the question or solved it.
5 points	You give a correct solution to the problem, AND provide an explanation organized in the form of Polya's four steps. Your explanation is reasonably detailed, and someone who was provided with a statement of the problem could follow your solution, and see how it addressed the question at hand.
6 points	You give a correct solution to the problem, AND provide an explanation organized in the form of Polya's four steps. Your explanation is extremely detailed (and might include figures, sketches, or some sort of supplementary visuals), and someone who had never even seen the problem would see immediately what the question was and how to solve it.

Note that the above scale rates the *quality of your explanation*, and assumes you did correctly answer the question being asked. If your solution contains errors, or proceeds in the right direction but fails to completely address the question, points will be deducted from the above scale.