9C Midterm Exam Grading:

Problem #1a
10 points: Correct answer
7 points: Correct approach; minor error in geometry, vector addition, or calculation
5 points: Correct approach; multiple minor errors
2 points: major error in approach (didn't use Coulombs law or superposition)
0 points: completely incorrect

1b
10 points: Correct answer
7 points: Correct approach; minor error
4 points: Conceptual error or several minor errors
0 points: Completely incorrect

2a
10 points: Correct answer
2 points: Some correct reasoning or work
0 points: Completely incorrect

2b
10 points: Correct answer
7 points: Right expression for potential; minor calculation error
5 points: Major (conceptual) error or several minor errors in calculation
2 points: Some correct reasoning
0 points: Completely incorrect

2c
15 points: Correct answer
12 points: Minor error in calculation or wrong expression for potential
6 points: Wrong expression for potential energy or other major error
0 points: Completely wrong

3
20 points: Correct answer
17 points: Minor error in numerical work
13 points: Minor error in expression used
6 points: Some correct reasoning
0 points: Completely wrong

4a
10 points: Correct answer
7 points: Minor error in calculation
4 points: One major error or several minor errors
0 points: Completely wrong

4b
15 points: Correct answer
12 points: single minor error
6 points: One major error or several minor errors
0 points: Completely incorrect