Printed Name: .

Physics 331

MISSION 8: RETARDED E&M TO RADIATION (38+2)PTS)

Problems mentioned refer to David Griffith's *Introduction to Electrodynamics*, 5th edition. Skip two problems. Each problem worth 5pts.

- **Problem 78** Problem 10.13 (Coulomb's Law holding in a particular context)
- **Problem 79** Problem 10.14 (Biot-Savart Law approximately holding)
- Problem 80 Problem 10.17 (deriving Lienard Weichart potential for constant velocity charge)
- **Problem 81** Problem 10.20 (algebra to support conclusions of §10.3)
- **Problem 82** Problem 10.21 (electric and magnetic fields of moving charge)
- **Problem 83** Problem 10.22 (moving flux calculation!)
- Problem 84 Problem 10.26 (summary diagram)
- **Problem 85** Problem 11.1 (retarded dipole problem)
- **Problem 86** Problem 11.14 (lifetime of classical electron)
- **Problem 87** Problem 11.18(a) (point charge on a spring)