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| **RESULTS: Problem 3.1** | | |
| **Optimizer** | **Tuned Parameters** | **Final Test Accuracy** |
| Standard SGD | η = 0.8 | 97.92% |
| SGD + momentum | η = 0.05,  momentum = 0.9 | 98.06% |
| AdaGrad | η = 0.003, η\_decay = 1e-8 | 97.53% |
| Adam | η = 0.003  betas=[0.9, 0.999], eps=1e-8,  amsgrad=False | 97.61% |