

Project 1
November 20, 2002

Name _____
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Some students at many colleges and universities enroll in courses and then later withdraw from them. Such students may have part-time status upon withdrawing. Part-time students have begun questioning the fee-refund policy, and a public debate is taking place. Recently the student senate passed a resolution condemning the current fee-refund schedule. Then, the associate vice president issued a statement claiming that further erosion of the university's ability to retain student fees would reduce course offerings. The Board of Trustees has hired you and your associates as consultants to help prepare for hearings in this matter.

Examine the current fee-refund schedule for CBU. Present a (scatter) graph of the data and find a formula for a model that "fits" the data. Critique the current fee-refund schedule.

1. Create alternative fee-refund schedules that include two quadratic plans (one concave up and one concave down), an exponential plan and a logistic plan. For each of these plans show the corresponding table, scatter graph and equation.
2. Select the plan that you believe to be the best choice from both the student's and the administration's perspective. Find the average rate of change in the refund amount between the first and sixth week. Estimate the (instantaneous) rate of change at 1, 3 and 5 weeks respectively.