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| 1. (1 pt) alfredLibrary/AUCVchapter5/lesson1/quiz-                                | $P(t) = \underline{\hspace{1cm}}$  |
| omparison2pet.pg  |  |
| community had an initial population of 7000 people in 1990.                       | 2. (1 pt) alfredLibrary/AUCI/chapter5/lesson1/quiz/interest1pet.pg What is the balance after 1 year in an account containing \$800 |
| a) First assume that the population decreased by a constant                       | that earns a yearly nominal interest of 8% and is compounded   |
| 5 people per year. Write a formula $P(t)$ that gives the popula-                  |  |
| on t years after 1990.  | (a) annually? (once per year) \$   |
|   | (b) weekly? (52 times per year) \$   |
| $P(t) = \underline{\hspace{1cm}}$   | (c) every minute? (525,600 times per year) \$  |
|   | (d) continuously? \$   |
| b) Now assume that the population decreased by a constant                         |  |
| % per year. Write a formula $P(t)$ that gives the population $t$ ears after 1990. | (Enter final answers only, not formulas. Round all answers to the nearest cent. Do not enter large numbers with commas.)           |
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