

Mathematical Applications: Problems - Homework

1. The graph for the Advertising Expenditure P in 1994 was $P = 100 + 100e^{-\frac{1}{10}t}$ where t is the number of months after January 1, 1994. (The number of advertising expenditures is approximately 100 million dollars.)



2. South Atlantic Time Communications is being franchised according to the following plan:

P_1 and P_2 franchises are $\frac{1}{100}$ per hour.

(Measured in 1994 per hour.)

Each franchisee must submit a cash deposit of \$100,000 to the franchisor as a sign of commitment. Each franchisee must also pay \$100,000 to the franchisor for the right to use the South Atlantic Time Communications name.

$$\left(\frac{100}{100}\right) = 100 + 100 = 200$$

$$100 + 100 = 200$$

$$\frac{100}{100} = 1$$

$$\frac{100}{100} = 1$$

$$\frac{100}{100} = 1$$

$$100 + 100 = 200$$

$$100 + 100 = 200$$

$$100 + 100 = 200$$

$$100 + 100 = 200$$

$$100 + 100 = 200$$

$$100 + 100 = 200$$

3. Assume a person has a total personal income of \$100,000 per year and is a resident of a state that has a personal income tax rate of 10%. The person has a total personal income of \$100,000 per year and is a resident of a state that has a personal income tax rate of 10%. The person has a total personal income of \$100,000 per year and is a resident of a state that has a personal income tax rate of 10%.

Year	Income	Tax	Net Income
1994	100,000	10,000	90,000
1995	100,000	10,000	90,000
1996	100,000	10,000	90,000
1997	100,000	10,000	90,000
1998	100,000	10,000	90,000

$$100,000 - 10,000 = 90,000$$

$$90,000 - 10,000 = 80,000$$

$$80,000 - 10,000 = 70,000$$

$$70,000 - 10,000 = 60,000$$

$$60,000 - 10,000 = 50,000$$

4. Assume that the person has a total personal income of \$100,000 per year and is a resident of a state that has a personal income tax rate of 10%. The person has a total personal income of \$100,000 per year and is a resident of a state that has a personal income tax rate of 10%. The person has a total personal income of \$100,000 per year and is a resident of a state that has a personal income tax rate of 10%.

$$100,000 - 10,000 = 90,000$$

$$90,000 - 10,000 = 80,000$$

$$80,000 - 10,000 = 70,000$$

$$70,000 - 10,000 = 60,000$$

$$60,000 - 10,000 = 50,000$$

$$50,000 - 10,000 = 40,000$$

$$40,000 - 10,000 = 30,000$$

$$30,000 - 10,000 = 20,000$$

$$100,000 - 10,000 = 90,000$$

$$90,000 - 10,000 = 80,000$$

$$80,000 - 10,000 = 70,000$$

$$70,000 - 10,000 = 60,000$$

$$60,000 - 10,000 = 50,000$$

$$50,000 - 10,000 = 40,000$$

$$40,000 - 10,000 = 30,000$$

$$30,000 - 10,000 = 20,000$$

$$20,000 - 10,000 = 10,000$$

$$10,000 - 10,000 = 0$$

$$100,000 - 10,000 = 90,000$$

Optimization Problems Stu Schwartz Answers

Karin Nielsen-Saines



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