Name: _____

Math 123-01

Summer 2025

Dr. Lily Yen

Quiz 4

Show all your work

Number: _____

Signature: _____

Score: ___/10

Problem 1: Solve for the indicated variable in each of the following.

a. Solve for t in $I = Prt$

b. Solve for x in $(2.35)^x = 17$. Provide accuracy to two decimal places.

c. Solve for r in $A = P(1 + r)^7$. The exponent is 7.

Score: /5

Problem 2: David's grandmother treated everyone in the family to the modern opera, *Flight*, in the spring. If the tickets including a 12% tax came out to \$624.43, what was the price of opera tickets before tax?

Score: /1

Problem 3: Janette's friend, Tino, purchased a recreational vehicle and financed \$7500 at \$550 per month for 20 months. Assuming the add-on interest method, what was the amount of interest paid over 20 months? Find the annual interest rate charged on the loan.

Score: /3

Problem 4: If *Chancellor's Capilano Financial* Visa card charges 21% on unpaid balance, how much would it cost in finance charge to leave \$537 unpaid past the due date for 60 days? Hint: Credit card companies use 365 days a year. For the sake of simplicity, use simple interest.

Score: /1