Business Mathematics & Statistics

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1. Analyze and calculate percentage cost, profit, and selling price using appropriate formulas and methods.
2. Evaluate and apply concepts of interest, including simple and compound interest, to financial calculations and investment decisions.
3. Solve problems involving linear equations and determine the degree of the equation.
4. Utilize substitution and elimination methods to solve systems of linear equations for real-world applications.
5. Calculate determinants and co-factors of matrices to solve equations using matrix algebra.
6. Interpret and calculate measures of central tendency, including median and mode, in data sets.
7. Compute standard deviation and coefficient of variation to analyze the variability and distribution of data sets.
8. Analyze and interpret correlation between variables using Pearson's coefficient of correlation.
9. Calculate Spearman's Rank Correlation Coefficient to determine the strength and direction of relationships between variables.
10. Apply regression analysis to predict outcomes and trends based on statistical data.