

المشرفة	الطالبات	عنوان البحث	الملخص
د. إيمان غريب	رغد صالح محمد العمري شهد عبدالله سالم الصاعدي حصة عبدالعزيز سليمان الهيدان ميعاد عبدالعزيز ابراهيم الحنيح	Introduction to Semirings	In this study, we focus on semiring, which is one of the algebraic structures. we highlight the definition of semiring, some important algebraic properties and results with proofs. We enriched the study with many illustrations examples. Also We investigate the substructures (subsemirings and ideals) product structure, homomorphic images, and isomorphism maps. Some types of semirings are introduced with examples. Moreover, the structure that was generated by complemented elements is proven.
د. إيمان المعلم	غاده خالد بركه الحربي ريم خالد سلطان السبيعي بدور طلال البقمي مها محمد عبدالله الدوسري	Approximating Integrals in Two Dimensions Using Python	In this project, we solved integrals numerically using two methods. These methods are Trapezoidal rule and Simpsons's rule. First, we considered integrals in one dimension. Then, we generalize formulas to approximate integrals in two dimensions. Finally, we used Python to generate the numerical results while varying the values of $h$ and $k$ which represent the length of sub intervals. We computed the errors and compare our results with the exact solution.
د. وداد البلوي	منار صالح عبدالله الحارثي ريوف بنت عبدالكريم ابراهيم العامر جود محمد سليمان التركي ربي سلطان محمد الحويل	The Movement on the Curve	In this research, we study the movement on the curve by observing the frame movement (the Frenet-Serret apparatus) $\{\kappa(s), \tau(s), T(s), N(s), B(s)\}$ . We can calculate this frame for any given curve and then classify it as a curve in plane or space.
د. رفعة العتيبي	رغد حمود محمد العسيمي نوره ابراهيم عبدالله زهير نورة ماجد صالح الحازمي روى علي الحمدان	Estimation of Fréchet distribution	Fréchet distribution is a special case of the generalized extreme value distribution. It can be used to describe the probability of occurrence of certain events or processes, such as stock market movements or weather patterns. In this project, we present the theoretical analysis of Fréchet distribution. such as the probability density function, cumulative distribution function, reliability function, hazard function, and quantile. as well as a review of some statistical and mathematical characteristics such as non central moment, mean, variation, as well as order statistical. The maximum likilihood estimators of the two-parameter Fréchet are considered. In addition, the confidence interval

and asymptotic Fisher information are discussed. Also, the simulation study is presented to show the theoretical results of the proposed model. To indicate the flexibility of our model in real life, breaking stress data is applied.

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