Course of Calculus and An. Geo. For UBIT 2020

Book: Calculus by Anton, 10th Edition.

Exercises

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| **Exercise** | **Questions** | **Topics** |
| Ex: 0.1 | Q 1, 4, 9, 10 (a-d) | Domain & Range |
| Ex: 0.2 | Q 5-24,63 | Sketch of function, Even Odd function |
| Ex: 0.4 | Q 9-14 | Inverse of a function |
| Ex: 1.1 | Q 1-10 | LH and RH limit |
| Ex: 1.2 | Q 3-26 | Limit Computation |
| Ex: 1.5 | Q11-22 | Continuity |
| Ex: 2.2 | Q 1,2,9-12 | Differentiability |
| Ex: 2.3 | Q 1 – 24 , 41-42 | Find Derivative |
| Ex: 2.4 | Q1-14 | Find Derivative |
| Ex: 2.5 | Q 1-16 | Find trigonometric Derivative |
| Ex: 2.6 | Q 7 - 20 | Chain Rule |
| Ex: 3.1 | Q 1-12 | Implicit derivative |
| Ex: 3.2 | Q 1-26 except mod | Log derivative |
| Ex: 3.3 | Q 15-26 | Exponential |
| Ex 3.6 | Q7–14,29-34,36,39-42 | Indeterminate forms |
| Ex: 4.1 | Q 15-20 | Increasing/decreasing Function |
| Ex: 4.2 | Q 7-10 , 51-55 | Relative Extrema |
| Ex: 5.2 | Q 9-32 | Integration |
| Ex: 5.3 | Q 1-11(a), 15-36 | Integration substitution |
| Ex: 5.6 | Q 13-22 | Definite Integral |
| Ex: 7.2 | Q 1-14, 19,20 | By part |
| Ex: 7.5 | Q 1-4,9-24 | By partial fraction |
| Ex: 6.1 | Q 1-9 | Area under the curve |
| Ex: 6.2 | Q 1-2, 5, 6 | Volume |
| Ex: 6.5 | Q 1-4 | Surface area |