"On my honor, I have neither given nor received any unauthorized andlor inoppropriate assistance for all sessions of this exam. The work done on this exam is totally my own. I understand that by the school code, violation of these principles will lead to a zero grade and is subject to hanh discipline issues, " Höseyh Kerem Micon 15049629 125 A marks 125 125 Q 0, F100 Q1) il Answer: (2) 100101 += 5:6:35 iil Answer: (c) 7 3 4 1111 Answer: (6) 1 4 6 iv) Answer: (a) x(x)2) output is VI Answer; linspoce (4, 35, 6) O2) i) (a) one cannot always find exact solutions. ii) (c) Either no root or even number of roots lie in Ca,6] iii) Round-off: found-off error hoppens because computers can only represent numbers, which has a finite number of digits, like > (1+107) - 107=0 Truncation error: In mumerical methods we use approximations to

represent exact notherestical operations. That's why truncation error happens.

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two numbers. (its about Floating-point) Em 20 1+ a=1 los (Em

VI Substractive concellation. Substrictive concellation is the loss of some significant digits when we doing a flooting point computation,

It is an concellation error.