Unit-6 - Generally function & Recurrence Relations

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1) November 2020 09.09

(My) Out 1/2 System of Intyen. I Addition

Algebrase

System

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Arthurwallo & Had. Muly

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Extend

Soft Semyorb

Set

Semyorb

Asherators - Ring

Field

Only selded

On

My -5: 2) Ref. D.M. by Tramply and Manchel Algebraic System with two boings sporafa (ch.2)
noted on mot address
Rive: , An algebraic System (s,+,) is called Rive if + and - ans
Satisfy the following three properties— Ale the proposed - wir (. the grafus,) (s, +) is an abelian group
() (s,+) han abelian group
2) < 5,-> 1/2 Semigroup.
9. (bec) = 9.5-es.c (bec) .9 = b.9-16.9
Ring. (5,7) additions der (-a) (5,7) > publiphiche identify (a)
< s, +, >> > > pultiplicative identity (a

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Ly A group Can not have zon element.

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(S, +, -) (S, +) - H. G. S. (S, +) - Gramutative also. (S, +) - H. G. S. (S, +) - Gramutative also. (S, monord) - I'dentity W.

→ Ring With I'dentity.

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- [1] +(3] -) [0].

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< 5, +, > > Ring without divisor of 300-

9 ntgrd danain: - A Comm whather king (s, t, .) with identity and lothest divisor of zero is collect Interest domain.

(s, t, -> > Guy van-zeroelevent of s has a multiplicative inverse in s.

Field: - A Comm. King in which Interest domain domain to a field

Soft D.D. and field

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King Homomoforism :> lef < R, t, -> and < SA), 0> 9: Ras it for ay 4,5 GR. $g(arb) = g(a) \oplus g(b)$ and $g(a.b) = g(a) \oplus g(b)$ Semigroup homomorphism group hanomal phism < C7> - < 5(D> Dishibative properly is preserved 9 (9.15ec)) = 9 (9.5 +9.6) 7 9.15 Melid

Unit-44 Drit-5) > UM, A.S. Unto 6- > R.R. & G.F.

Ref. 1 Kevely Resen - Ch. F. + Advanced Counting

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