* The ring of symmetric functions

1 Raning BR= R[13, 3, ---.]] ARE BR wonsisting of numer series that are 1) symmetric, 2) bounded.

A:-AZ 1 to Ux R MAR

D AR

AR - AR 9n: AN , N'>N

P(N): R --- R [3, , ---, 3N]

R/3,, -.., 3,1.

P.: Hensoning mx.
PL: Hensoning the map R-18/3,7 an EKn

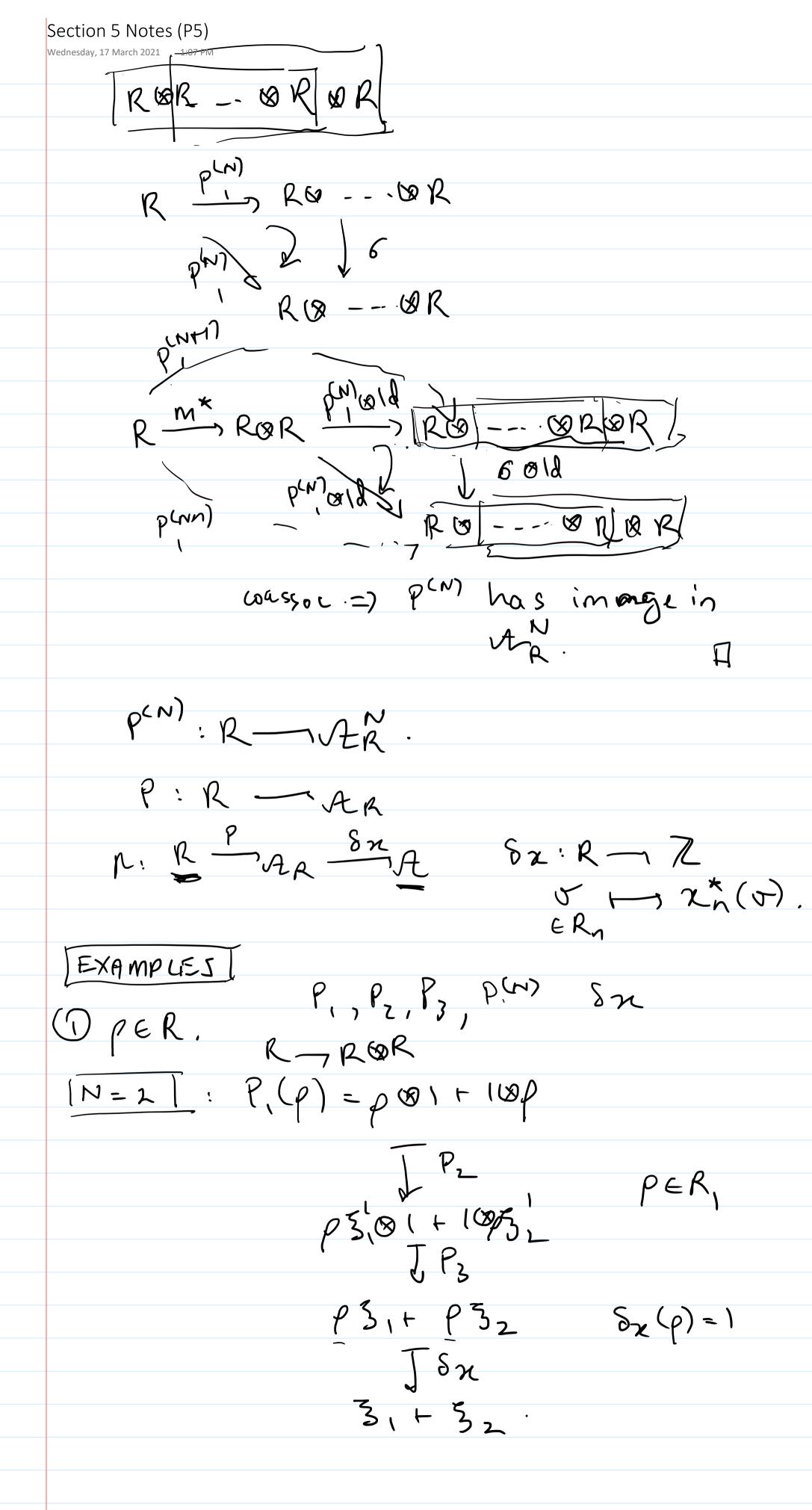
P, P, Ps and hence P(N) an morphisms of graded

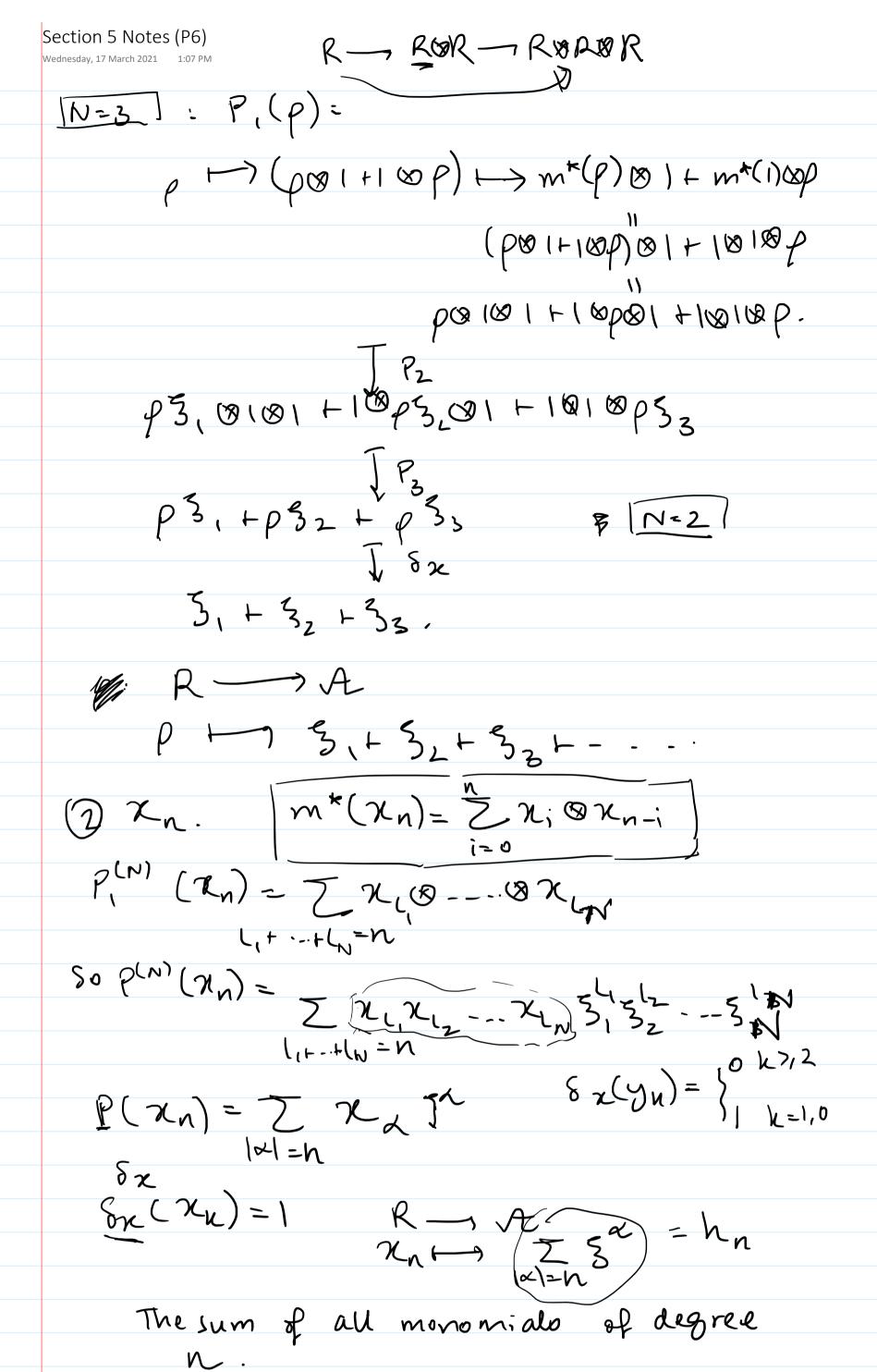
dain: P(N) = P30P_0(P): R - R/3,...,3N) has its image in AR = RIS, ..., SN).

ef: base core (N=2)

R Nx ROR MR 2 Plip.

· Suppose (m P, (n) is symmetric for some N>,1.





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Wednesday, 17 March 2021

Schur Functions

R A

Section 4: $\lambda \in \mathbb{P}$, \overline{f} . $\overline{2}\lambda\overline{3} \in \mathbb{R}_{|\lambda|}$ irreducible element s-L

 $\chi_{\lambda}^{k}(\{\lambda\}) \neq 0, \quad \chi_{\lambda}^{k}(\{\lambda\}) \neq 0$ and $\chi_{\lambda}^{k}(\{\lambda\}) = \chi_{\lambda}^{k}(\{\lambda\}) = 1.$

 $\lambda \mapsto \{\lambda\}$ is bij $P \longrightarrow \mathcal{N}$

The image of 32% are called Shur huntions.