Theorem: Any charticolisto matrix is a convex combination of permutators (Von Neumann/Birkhoff theorem)

Find tiling of IN by APs W/ all different lifferences

Read first bit of generating functionalogy by H. Wilf

EX: If $G \leq V_{F_p}$ is infinite turn $G \cong V_{F_p}$.

Ex. VFP only has countably many finite subgroups

Any abelian group is a commtative mobile over Z.

Lemma: assume ACN ma J(A)=1. then A is GP-rich.

Is it true that YESO, JACN W. J(A)>1-8 and A is not GP-rich.

IS IT I VUE $\int_{c}^{c} \frac{d^{2} d^{2}}{d^{2}} \int_{c}^{c} \frac{d^$

- one Ci is GP-rich by VdW Lemm: Any set A with $\overline{d}(A) = 1$ is AP - rich All are AP - rich by Sz.

by Hints. J(An A/n) = 1, etc.

J((AnAn)n (AnHn)/m) maybe

 $\bar{J}(An(A-n)) = 1$, etc.

Book dexercises from 11 &12.

$$(n, \lfloor n\alpha \rfloor)^{\frac{3}{2}}$$
 | density of $\frac{6}{\pi^2}$ for both 7.7.7.
 $(n, \lfloor n^2 \rfloor)^{\frac{3}{2}}$