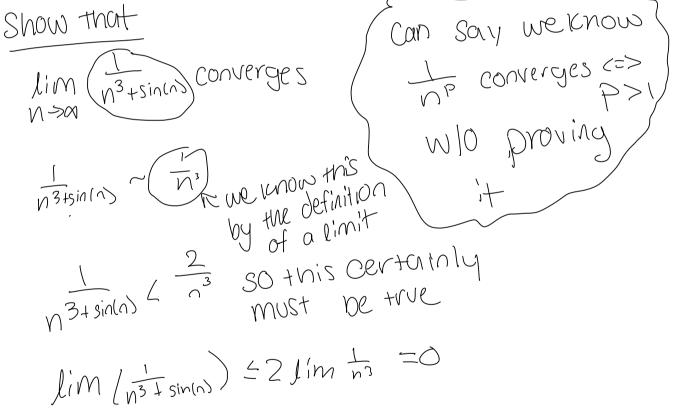
3)7/2022
The Keeps referring to proving the Alternak series rest
$$\star$$

(so study that!)
Prove that the ratio test works \leq he amost put this on
the midler models
 \mathbb{E} an satisfies $\lim_{n \to \infty} |a_n + 1| \leq r < 1$
Hint: consider geometric $\frac{2}{n \leq r}$
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At least one will be a definition or a three through
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Hint: consider geometric $\frac{2}{n \leq r}$
 $\frac{1}{n \leq r}$
 $\frac{1}{$

Definition -
$$\frac{2}{2}$$
 an converges to L
N=0
Let Sn: $ao + a_1 + ... + a_n = \frac{2}{5}a_n$
Just means lim Sn = L
 $a > a$
 $a > a > a$
 $a > a$
 $a > a > a > a$
 $a > a > a$

If
$$lim x_n = lim z_{n=2}$$
 then $lim y_n = L$
NOT TRUE -1 (1)
If $lim x_n$ and $lim z_n$ exist,
then $lim y_n$ exists
 $lim y_n = \frac{l-m}{2}$
 $lim x_n = \frac{l-m}{2}$



Ean
$$0 \pm an \pm bn$$
 Zbn
 $\Rightarrow a_0 + a_1 + \dots + a_n \leq b_0 + b_1 + \dots + b_n$
 $a_n pos_1 bounded by bn
Partial Sums increasing $\pm bounded$, so an
converges
increasing, bounded, Monoton convergence
incr$