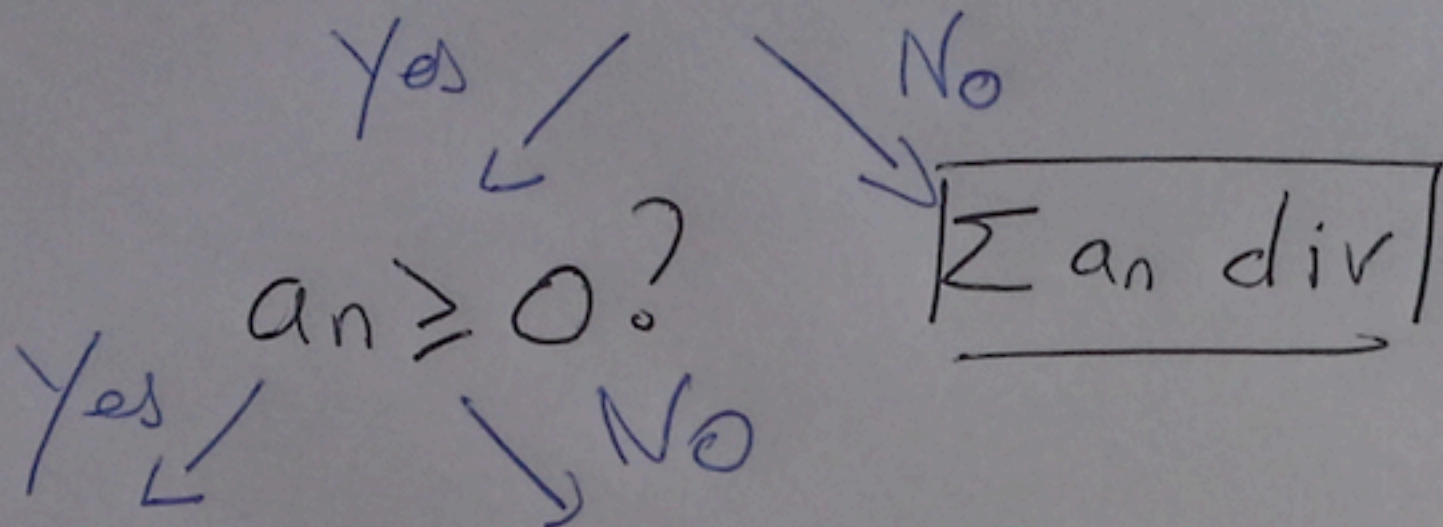
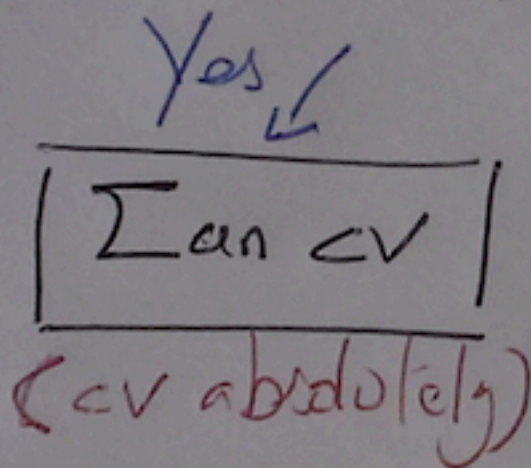


# Convergence of $\sum a_n$ ?

$a_n \rightarrow 0$  ?

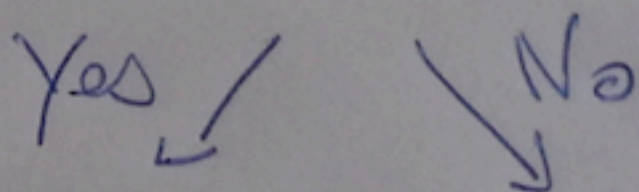


$\sum |a_n|$  cv ?

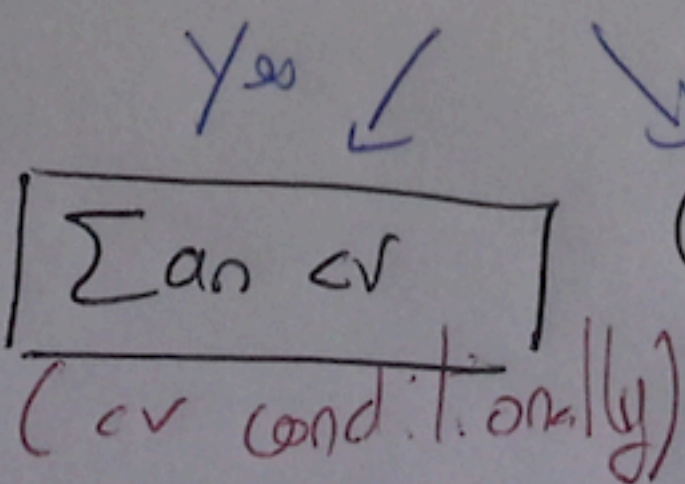


( $\sum |a_n|$ , with  $|a_n| \geq 0$ . Use comparison, limit, Ratio, Root, integral tests to study cv of  $\sum |a_n|$ ).

$\sum a_n$  alternating ?



Alternating test works ?



Complicated.  
(Study partial sums)

Complicated.  
(study partial sums)

- Tests {
- Comparison
  - Limit
  - Ratio
  - Root
  - Integral

(If no test is conclusive study partial sums)

Allows you to conclude whether or not  $\sum a_n$  cv.