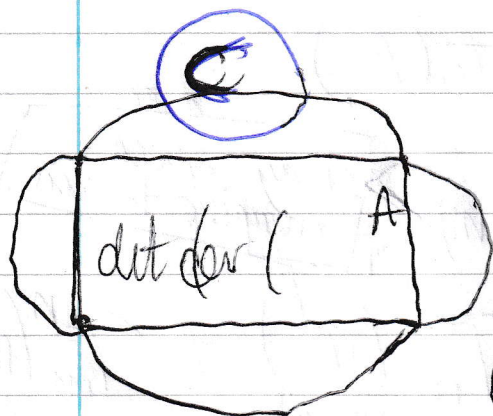


$\text{cov}()$

det cts

$$\Rightarrow \det \text{cov}(A)$$



$$\det(A+K) \in \mathcal{E}$$

$$K \rightarrow 0 \quad \det(A+K) \rightarrow \det(A)$$

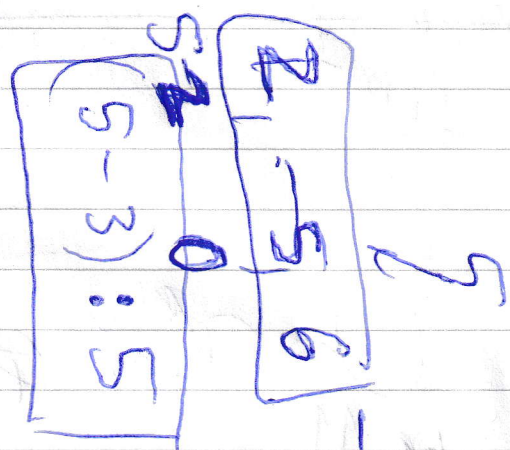
on det cts.

$$\det(A+\varepsilon) \leq$$

$$\det(A+K) \leq \|A-K\| \quad \text{on compact ball around } A.$$

$$\text{So } \det(A+K) = \det(A) + o(1)$$

$A+B$



$(0,1,2,3)$

6 ± 1

$$\log(x_n) - \log(x_{n-1}) \sim \log(x_n)$$