

# Summary for Test 1

## Vector Calculus

- draw vector field

- $\vec{A} \times \vec{B}$

- $\vec{\nabla} T$ ,  $\vec{\nabla} \cdot \vec{v}$ ,  $\vec{\nabla} \times \vec{v}$ ,  $\nabla^2 T$

- $\int_P \vec{v} \cdot d\vec{l}$

- $\int_S \vec{v} \cdot d\vec{a}$

- $\int_V T d\tau$

- fundamental theorems

(check)

- $\delta$ -fct.

- potential