



## **№** Problem

At first, check if the transformation is linear

find it's kernel and image is it an isomorphism or not? why?

$$T(f(t)) = \int_{-2}^{3} f(t) \, \mathrm{d}t \quad \text{from} \quad P_2 \text{ to } \mathbb{R}$$



## **Problem**

Show examples of isomorphisms from  $P_3$  to  $\mathbb{R}^3$ (just 2 or 3 examples)