

## 240Algebral-091015, Hour 16

October-16-09

8:54 AM

Taught by Yael Karshon:

- "T:V→W is linear"
- Preserving 0.
- Claim on  $cx+y$ .
- Claim on differences and many-element sums.
- Example:  $\mathbb{R}^2 \rightarrow \mathbb{R}^2$  by explicit formula.
- Example: Differentiation.
- Example: Rotation (+ explicit formula).
- Composition of linear trans is a linear trans.
- For a l.t., arbitrary values on a basis.
- "Isomorphism".