

## Linear Transformations Visualization

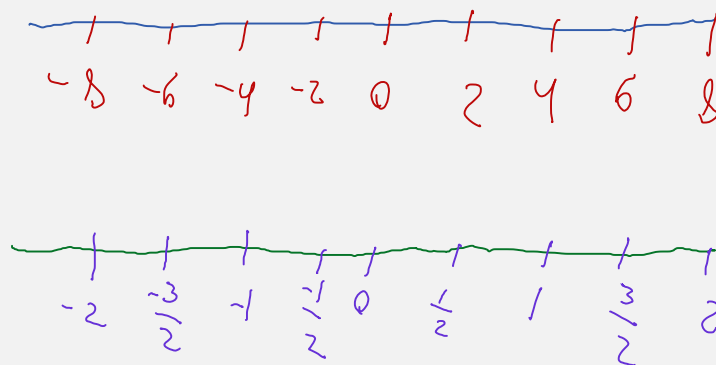
$T: \mathbb{R} \rightarrow \mathbb{R}$  1 dimension

$$T(x) = 2x$$

[Linear transformation]



$$T(x) = \frac{1}{2}x$$



Property

- ① Origin must be fixed
- ② All lines must remain lines