

## Exercise 3-5-31

A. J. Roberts, August 11, 2020

For the subspace  $\mathbb{X} = \text{span}\{\boldsymbol{x}\}$  and the vector  $\boldsymbol{v}$ , draw the decomposition of  $\boldsymbol{v}$  into the sum of vectors in  $\mathbb{X}$  and  $\mathbb{X}^\perp$ .

