Math 4300 Homework 6 Solutions

(1)
$$A = (0,0), B = (-1,1), C = (1,1)$$

Note that $\overrightarrow{AB} = L_{-1,0}, \overrightarrow{AC} = L_{1,0}, \overrightarrow{BC} = L_{0,1}$





(6)













We have that $\angle ABC = \overrightarrow{BAUBC} = \overrightarrow{BCUBA} = \angle CBA$ by def $\overrightarrow{by def}$ $\overrightarrow{of sets}$ $\overrightarrow{by def}$ $\overrightarrow{of sets}$ $\overrightarrow{by def}$ $\overrightarrow{by def}$ $\overrightarrow{of sets}$ $\overrightarrow{ABC} = \overrightarrow{ABUBCUCA}$ \overrightarrow{HWS}

ACB = ACUCBUBA = CAUBCUAB = ABUBCUCA property of Union of sets Thus, WABC = ABUBCUCA = DACB. The other equalities all have a similar You Proof. Try it out. Proof. Try it out.

(1) Let B, Z be points with $B \neq Z$. Let l = BZ. Let $f: l \rightarrow IR$ be a ruler with f(B) = 0 and f(Z) > 0.

