1. Use the standard inner product on W_{22} for

$$\boldsymbol{U} = \begin{bmatrix} 1 & 0 \\ 1 & 2 \end{bmatrix}$$
 , $\boldsymbol{V} = \begin{bmatrix} 1 & 3 \\ 1 & -1 \end{bmatrix}$;

to compute the following 3 problems.

(1)
$$||U|| \sqrt{6}$$

(2) d(*U-V*)
$$3\sqrt{2}$$
 ($\sqrt{18}$)

(3) True or false: whether U is orthogonal to V? True