CORDINATES RELATIVE TO ORTHONORMAL

BASES:

If S = {\( \), \( \)\_2, \( \)\_- \( \)\_ \( \) \( \)\_3 is an Orthonormal

basis for an inner product space V

and u is any vector in V then.

u = \( \( \)\_4, \( \)\_1 \( \)\_4 \( \)\_4, \( \)\_2 \( \)\_2 \( \)\_- \( \)\_4, \( \)\_1 \( \)\_5 \( \)\_5 \( \)\_6 \( \)\_6 \( \)\_6 \( \)\_7 \( \

Find the coordinate vector (4)s.

\(\(\lambda\) \(\nu\) = \lambda(\(\lambda\)) \(\lambda\) \(\lambda\)

U=(1,1,1)