Nama ? Michael Goral de Woasa NIM 85803538051 Lax 801 orthogonal Projections of the Standard unit vectors 1. a fire tre 6: - (1'0) and 65: (0'1) outo the live T foot water SHO - A SOLYING A+ UNIN B an angle p. Use the Essort in dout as I to find the standard motely for the To Rz->R2 that mars each point offered wall? OTHO L. =>(a) x : Cc65 0,8ma) 2-(01) E1 = (1,0) X - CCOSO, SIND) addition CAN, Willow SPRANIZING maka actrogoral prosection of E, along X (1.0000)+(0.5n0) VE0526 +81720 = (cogo, sm o cozo) ez along X (10) x e2 = (2. x x = (0.0050-)+(1.8m0) = (SUDCOLD'SLUTO)

Ja Comment

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2. Find the vector comparent of U along a and the vector comparent of a octhodown to a V=[3,1,-7) a=(1,0,5)

$$= \frac{(3.1)+(1.0)+((7).(51))}{(\sqrt{12+02+52})^2} \left(1,0,5\right)$$

$$= \frac{-32}{26} \left(1,0.5\right)$$
$$= -\frac{16}{13} \left(1,0.5\right)$$

$$=\left(-\frac{16}{13},0,-\frac{80}{13}\right)$$

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$$U - \Re o_{i} \alpha^{i} = \left(3, 1, -7\right) - \left(-\frac{16}{13}, 0, -\frac{80}{13}\right)$$

$$= \left(\frac{55}{13}, 1, -\frac{11}{13}\right)$$

3. Determine whether the vectors

are 1:16ard : 1,096 be u gent of 11 wearing gebendent in 133

