Scanned by CamScanner

EX 2) Find the projection making that projects outo the line  through a = (0,1,4). Hence find projection point p  that projects h = (-1,3,-2) outo a.  Fiven a-(0,1,4) b=(-1,3,-2)
$\frac{\text{projection metris} p = a^{T}q}{11 q a^{T}11}$ $= \begin{bmatrix} 0 \\ 1 \end{bmatrix} \begin{bmatrix} 0 \\ 4 \end{bmatrix}$
0+1+16
17 0 1 4 -0 4 16
- Projection point P that = P.bT  projects bonto a $= 10000 - 1$ $170143$ $0416 - 2$
= 17 0 -5 -20
Thus projection point p = (0,-5/17,-20/17)

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