EPFL Recall: T linear if 3 & with $T(\vec{r}) = A\vec{r}$. T linear if $T(\vec{r} + \vec{\omega}) = T(\vec{r}) + T(\vec{\omega})$. $T(a \cdot \vec{r}) = a \cdot T(\vec{r})$.	4
To obtain A: [T[3] T[3]].	
Ve have already can that rotations are linear Houseformations:	
We have already can short rotations are more of [x] X	
linear framformation hat a general	
(i) [20] and [03]: scaling.	
(ii) [10] and [20]: projection, projection and scaling.	
(iii) [-10] and [0]. reflection.	
(iv) [1] and [1?]: shears (ugh!)	
Projection: [6] = x [1] ~ = x [1] = x"	
x [5], write in terms of n" and n'	
Proj [6] = (LS 6) [7/1] [7	
How to find $\frac{1}{N}$ [b] at $\frac{1}{2}$ [cf. $\frac{1}{2}$] $\frac{1}{2}$ [cf.	ē.