```
7HM 445 Lecons
                                                                    1/23/1.5%
  V= d, e, + drår + ··· + drån
   (x, x) = d, B, + ... d, Bn
 dis are the "contintes" of the recon & w.r.t. the basis {e,,...,en}
  · Someting, I will ele up... un as lo-rdintes . + w.
        (u) = u, v, 1... + m, vn
Enclidean vector space: A finite dimensional real vector space
                          u.Ah on mor product.
                             ste real conduite space
                12" equipped with the imme product
                 (U, x)= u, v, + ... + unvh
      u = (u_1, \dots u_n) \in \mathbb{R}^n, \quad v = (v_1, \dots v_n) \in \mathbb{R}^n
               the with of agles between becks
 Affire point space (E) is a collection of points.
                             n vector space V such that
                       for any for points x, y E E, ther exists
                          a unique vector & EVF
                         which translates point x to y.
                      with the properties
                        a) x + (x + w) = (x + x) + w
                         b) X+0 = X
                        An affire space with Fulidam rede space
    Euclidem point space:
                            as its vector space.
```

