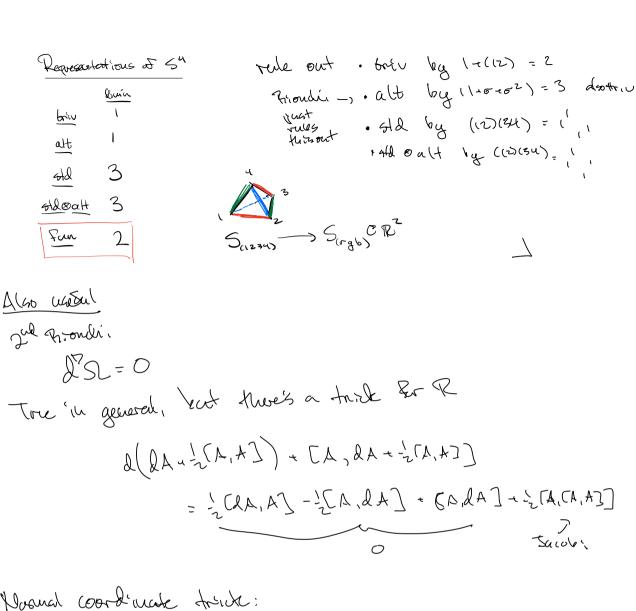
Last time // overview - Genes corrective of surfaces 2 turings. - distance Rundion B= 29 Lzg diege gresoder & level sols Fund egh 12B + B2 = - Rausertonesty, -K. To justly, where Pa(X) = - ROn,X) 2r K 's d (rotation of qualle) why 2 wruses? recall relative to home - [K duol = ] < De, ser on to St. (e., en) '15 the only natural counter doduire 4 & rotation & an orated Go & 2=e, X=ez, Rrowe, when traversed courterdodeurse (X, Roolx) = - (Ne, Pore, Per)

= Kduollerioz)

Ca ocradation

constrdoduire votestion & grove

```
Puli: Rabed = Sce Rabed is very symmetric
  obvious. Robed.
a legs obvious. Palocal
    Thursday or guestiers to dieck for on. From lecels
              A dew son ->
larara stew-
   Aftime 6.2. -2,22 Necrea
 even less
 Dry (Proudi,) PH, Y)2 - P(2,4) (- P(4,2)X = 0
      I thre it's regestord we don't use a Grove
                            6 permetations of (X, Y, Z)
                            only 3 distinct
                             D.D. . Es - R in group dyclora
                                Esc M(Es) regular regin
           (1-(w)) DD. - = PC:,1.
                                 (LG &1x(23)
                (1 + (125) + (123) (1-(12)) = 2 58My) g
               = (1+(123)+(123)2)(1-(23))
  Cor Robed = Redals
       T Alydorer in Eu
              P(0(X,4,2,W)): 24 -> 12
                                               o = ((2%)
                                              7= (1234)
         (1x(128) + (123) 2/1 = 0
                                            ( (12492-73) (140452)
              (1+(12)) 2=0
               (1+134) R= 0
```



Yourd coordinate trick:

- pretore in normal courds

Use normal coords when you can to look torms!

July (n)= 92 (46/16/2), (12/24)}, the 82-460typic part is 4 Doubl Euc V 5 Sym Elabord)} More Rudomentedly, Ege & TMS GLAM) 17 gr-god's on 'wed Glow och bad still wany her brown? . Q. M. Th -> M. The sate-adjoint sol. To ortogonal & M.Th Afternoone germetere (this is the trued Gl-rein ld ~> I R Pluto a exactly cots

out the stude

Lougoss.

## For swines M2 Ton M 15 1- Inventional ( Piziz determines all) A Mas R3, i45 det (hab)

H M 2 5 M, 1-1'S det (Mab)

Check

S = Sab Tlca 6

= P(12 2 1 P21 1 = 2 K)

Networ to governed u.

IF  $T = T_{e}M$  is a 2-plane, define  $S_{\pi} = \exp_{e}(T) \subseteq M$ 

Sec(T) = Kg(ST).

Lec (v,w)

There secles, w) = you've Rabed

TI=0 of P TI=0 of P

Else check estat of (author).

"i.e. quadratic Sor un detornined up to 19V by
rechardon to single terrisors in 12V

The Godfound consulves determine R.

The D= Ris - Ris. 0 = 0 (v.w, x, v.w, x) = 20(0, x, w, x) 0 = D(0, x+u, w, x-u)

= D(v, x, w, w) + D(v, u, w, x)

grus extra velation, mans it o

Prop  $\mathbb{Q}_{\mathcal{C}}(v,v) = \sum_{i} \mathbb{Q}(\mathcal{E}_{i},v,\mathcal{E}_{i},v)$  For a on. boars = 1012 & SOC( 61, W)

> $S = \sum_{i \neq j} \mathcal{R}(\mathcal{E}_i, \mathcal{E}_j, \mathcal{E}_i, \mathcal{E}_i)$ =26 60(61,61)

Con the always >, = so Vic, 5 always 7,0

la puticulus, constant automal convature K =>

wast — is this Ricedia? Rabed = K ( gar God - gad Gor)

> Tente gacqued but Eronder, Court waybe is when you seen- spunding.