

Where to find the industrial ferret/shop in Santander

(IF)

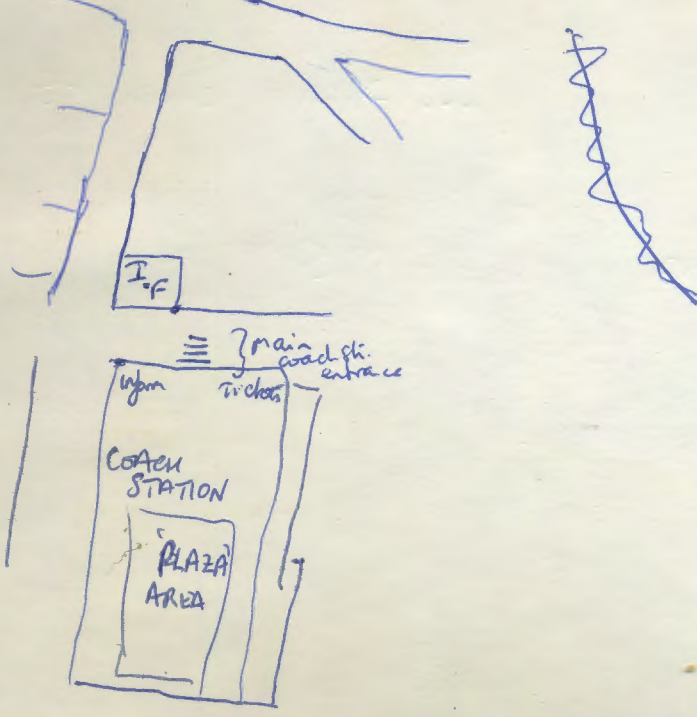
(BT)

PARK ←

OF

Ferry area.

Ferry Restaurant



TRAIN STATIONS

132

<u>Mon</u>	<u>T</u>	<u>Wed</u>	<u>Thu</u>	<u>Fri</u>	<u>Sat</u>	<u>Sun</u>
Shopping	Car	Gas up hill.				
claire	claire					
Tony	Dave					
Jean	Shi					
Gain	↓					
Trista	Amondas					
Base.	B/c - Trista					

Jean → Amondas.  
And with pad.

Tony → Aris if want

? Shaftbasting -  
Thes  
Jean  
Dave L.

(B3)

# Shopping List

~~Turned tomatoes  
 Garlic  
 Salad veg  
 Mint  
 Marker pen  
 Scratched Anise  
 Washing up brush  
 The Pan scrubs~~

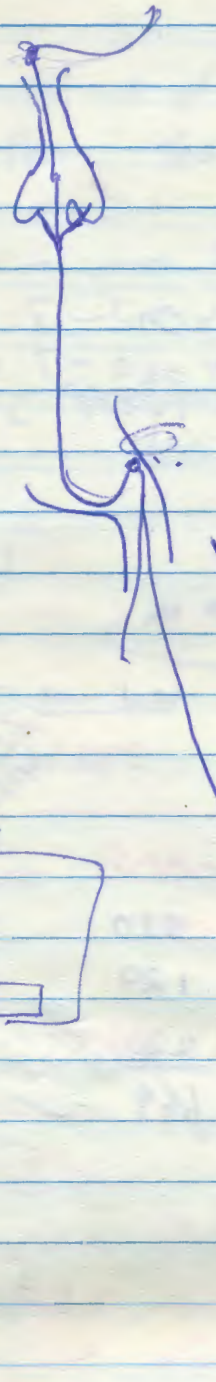
~~Spray paint ✓ 790  
 Washing Up Liquid  
 Chopping Boards ✓  
 Lots of Food. < garlic good veg.  
 Nice Food.  
 Pegs - wooden!  
 Cards  
 Washing up liquid.~~

Food  
 Wash up brushes  
 Small gas  
 Ladle  
 Chop board

Fruit  
 Veg  
 Milk  
 Pasta

Beans

B4



Portering Sun TN, DV, DL, DM  
 Camp 1 Su x M-0 SL, ADS, PM  
 Camp 2 0-Sun SCM, DM, DRB  
 Photos M/T-T/W TN, DM, ...

long tapes  
 mailbags  
 6 kangaroo

120, ~~100~~ <sup>20</sup> 5m rope  
 3 pits  
 2 food

survey gear



Σ S-MI SCM, DM, DRB  
 M-0 DH, PM, DV  
 0-Su SL, GN, DL  
 Su-W DM, ADS, TK,

M-0 DH, PM, AV, DV  
 w/0 DH, TK, SL/DM  
 E-M SL, DM, DL  
 M-0 GN, ADS, TK

Washing up brushes  
 Another chopping board  
 Veg  
 Garlic  
 Flour  
 Bread milk  
 Milk  
 Wash-up liquid

F-M SL, WS, ADS, DL  
 M-T-F DM, TK, GN, ?

DH, PM, DV, JA

The Kitty

Write notes to David here ...

V. 3rd sp. 6 525 pts of kitty money on bread of knee for.  
Dirk put 1st 3000pt in kitty on 2-7 for 2-7 to 8-7  
Dirk put 2nd 3000pt in kitty on 6-7 for 9-7 to 15-7.  
= Dirk used and paid for 9x75 = 405pt STAMPS


Dear David,

In the forest shop we bought

1 tin red spray paint

1 serrated blade knife *came with the*

3 candles

chopping board 

= total cost

2230 / xpdn

Dear David I owe the kitty 320

129

We spent pt. 4689

220

on food, but I owe

669

love Clave xxx

for toothbrush and - paste  
and other are also.

Dear Dave,

What should I do - my boyfriends just left me, I've got spots (on my ankles) & I've just spent 675 more pounds at the lover bar on bread,

Yours desperately

Paul

65ptas spent on bread

Dear Paul, What a sad letter, it's a problem so common among the young these days. The solution is easy: Rub your ankles with the bread to slough off the dead skin + help banish the spots. Serve your pinwheels on cowpats instead as they have more roughage.

(86)

Gavin bought 3x gloves  
✓ @ 105 why? has he got  
3 hands?

Dave B

Put in 3000 for week 2  
Took + paid for ✓ 9 stamps

~~I am kitty 100 (as a challenge)~~

Dear Dave, I have had to kitty stamps

Expedition spent 3000 Petrol  
100 Parking 4/7  
Kitty spent ✓ 730 (approx) food

Sherry

Dear Sherry,  
This is not a problem, you  
will grow out of these little  
troubles in time.

Dear Dave, I'm getting worse,  
this time I spent ✓ 3412 pesetas on food  
& ✓ 225 pesetas on bread, meanwhile,  
I've just found out my boyfriend was  
sleeping with me & the spots on my buttocks  
have turned into huge pussy festers,  
and now react my knees,  
Please help.

Paul

copy  
15485

Dear Paul,

Well you certainly do have a problem Amputation of  
the relevant organs is the only solution.

BT

Dear David,

I bought one pair of gloves ✓ 105

David

David, do you talk as well as write to yourself?

8/7/90

David - I've spent 590 pts on bread + eggs at the bar (out of kitty)  
Shemy

P.S. Dear Auntie Dave, H

How do you run a canyoning expedition to explore a deep Spanish Cave.

Yours in hope  
Shemy

2 postcards + stamps - 130

~~Don't know~~  
~~How we about~~  
for walking instead

16704	Food
392	Bread
2405	Ferrets
1350	Stamps
225	Postcards
445	Map
1900	Beerol

Tony owes kitty 950 Pts for a Spanner

23421 Pts

B8

11/7/90

Dear David

I've spent  $\checkmark$  500pts on bread at the bay and took it from the kitty. I also owed  $\checkmark$  151pts for the fairy cakes so I've put that back in Clare


ps. I've just realized I still owe  $\checkmark$  669pts so I've put that in too.

Dear David.

I arrived on 11/7/90 and have put 3,000 pts into the kitty as my first kitty contribution.

Dave. (H.)

Dear David

I've spent 300pts of kitty money on myself and I owe 96pts for a pair of gloves. Well call it 400pts if you like  
Dave L.  → This was @ the depilatory centre in Congasde Omis

Dear David

I put 3000 pts in the kitty  
Tim N.

Dear David.

I put 3000 pts in the kitty  
Shery.

---

All in up to here 12-7-90.



12/7/90.

Dave Lacey  
Put in 18000.

Dave Bell

Food 4958

Gas 360

Bread 290 ~~owed~~

Ferrets 2500.

And exactly what are we doing  
WITH the ferrets?

Tony says put them down  
53/5

Dave H

Put in 9000.

} order, or statement?

Dear David

I have absconded with 2 Dwarcell  
flat packs.

Dave L i

Dear David

I bought five loaves of the bar = 625pts

Dave L.

What about the fishes.

They're out. Well have to make do with them.

Joan paid 9000 pts to Kitty  
Tristan paid 6000 pts

Monday 16/1/90

Shopping  $\Rightarrow$  19,197 + 660 = 19,957 pts  $\rightarrow$  General groceries, fruit + veg + bread.

19197  
660  
19857

I think this should be an 8.  $\checkmark$  10%

I have spent 1500 pts on gas  
1106 pts on Tulipan  
70 pts on envelopes (5pts each)  
xpdn  $\rightarrow$  3500 pts on petrol

1500  
1106  
70  
2676

Gain

Could the next shopping trip please buy me one of the new, decent maps. I mean the one with a map on one side, (1:25000) and a sort of birds eye / panoramic view of the mountains on the other. It does revolutionary things like mark crags, woodland, and even gets ridges and valleys the right way round. It also marks most of the major caves of the area (Xitu, Cista, 315, Ridge, Perdules, F7, F20, but unfortunately not (yet) 2/7).

Ta

Gain

ps is there's some kind of guide which comes with it, I'd like that too.

Track K. - Have taken stamp envelope PAID

I found 106 pts on the kitchen table, and put them in the kitty

hr to have 19.6.90

Used & paid for  
Stamps 3x45 = 135 plus  
Dirt Part

I have stolen a jammer & made some cow tails  
from the bag of equipment - I will pay myself.\*  
\*don't pay yourself, pay Kitty!

Shopping - Joan + Karl Friday 20/7

22300 - food.

2000 ish - ferret shop.

1000 - petrol

- pan brushes
- scissors x 2 pairs.
- tape
- string
- Colanders

252/20

Shopping 24/7/90

- 249 Bread
- 900 Stamps
- 2165 Gas
- 7513 food.
- 360 Post Cards.

Jenny 2x postcards ~~not paid~~  
2x stamps

Joan 8 ~~£~~ x postcards not paid.  
8 ~~£~~ x stamps

David " not paid

Graham 1 jet.

B12

Dear David,

today I bought 7 leaves for 625 pesetas

- Tony

} and a couple of thousand on a magnifying glass for the rest of us.

And how to you share 7 leaves amongst 625 pesetas?

Dear David,

I have a problem. I have taken to becoming excessively merry and silly. The other night it reached ~~the~~ new heights when I smeared marmite over the back of a more responsible, intelligent, erudite, well-read, and more experienced caver, Dave Worsley.

Tonight I have seen a junior member of the club setting light to his legs.

I think I may be hallucinating due to the altitude. Can you help?

DAVID.

I OWE EXPED 200 Pts. HOPE THIS WILL NOT ADVERSELY AFFECT THE TURNOVER: PROFIT RATIO

J.C.

↓  
SURPLUS FOR GOD SAKE!!

Dear David,

I bought 1 envelope, 2 postcards, and 4 stamps. Please advise

on cost.

Tony X<sup>85</sup>

Dear David

Today 27/7 we spent	1600	on petrol
	9000	on outside
	6472	on food

I'll leave the wits to your imagination.

Dave L. ☺

P.S. kitty v. low ≈ 5000pts.

Dirk put 3<sup>rd</sup> 3000 pts in Kitty on 20-7 for 16/7 to 22/7  
 " " 4<sup>th</sup> " " " " 29-7 " 23/7 to 29/7  
 " " 5<sup>th</sup> " " " " " " 30/7 to 5/8  
 " " 6<sup>th</sup> " " " " " " 6/8 to 12/8

Pat put 4 x 3000 pts \_\_\_\_\_ 20-7 for whatever. (wks 3A, 5A)  
 " " 1300 pts \_\_\_\_\_ 20-7 for food bought brought  
 on Kitty in cages.

625 pts on Bread on 30/7.

Paul put in 130 pts for stamps & cards.

Jenny put in 1<sup>st</sup> week 3000 pts for 24<sup>th</sup> - 31<sup>st</sup>  
 " " " 2<sup>nd</sup> week 3000 pts for 1<sup>st</sup> - 7<sup>th</sup>

Paul & Joan - Tuesday 31 July - Shopping.

Spent Petrol 2,200 pts.  
 Bread 245 pts  
 Envelopes 45 pts  
 Shopping 11,489 pts  
 Bg Paper 600 pts

Joan Paid 800 pts for food bought.

Pat Paid 1000 pts

Pat Paid 1700 pts for wk 7 & Dave wks 3 & 7  
 (we paid for 12/8/90)

Tim paid 5000 pts for 11 days from 31/7/90.

Steve Gale period 3000 pts } Kitty  
 Peter Hoare period 3000 pts }

Fred Wickham paid 6000 pts Kitty

David

1 week for 5 postcard + 5 stamps

Dave

## Featuring

Once Upon a Soap

B14

- Joan Cave Club Nanny.
- Jan Cave Club Daddy
- David M. Cave Club Auntie
- Rohan Cave Club Grandad. Sexpot enemy
- Tony Cave Club's Errant Son.
- ave H. Eccentric, well educated social acquaintance to the family.
- Frisan Cave Club's 'oldest son + will inherit the fortune'
- erry Wild Eyed rebellious daughter
- Dirk Cave Club's distanced Uncle
- Steve The white bearded patriarch. Not in this episode.
- David L. Cave Club's Black Sheep. The skeleton in the cupboard.
- Paul M. Cave Club's son with a shady past.
- Jenny Bright young thing of the family.
- Dave Bell. Another Uncle. You know when he's visiting, it's so quiet when he's gone.
- Clare. Patently a nice young lady who has fallen in with the dangerous Paul.
- Wkadek. Quiet, hard working Uncle. Charming in every sense.
- Fred The Cave Club Grandee. of the old Colonial School.
- Gerhard The most correct child. Good at ~~math~~ sums.
- Ewald A quiet, shadowy friend of the child Gerhard.
- Tim Prodigal Son. Found lately in the Bar Rio Grande C. de Oria

Fred Ferrera + Stamp 65 ptes Parcel.

BIS

We spent 12434 + 2163 on food

Dave L	by <sup>paid</sup> <del>gave</del>	1300	for stuff he bought
Savin	paid	720	
Tristan	paid	216	
Dave B	put in	215	

Dear David

Tony spent 125pts on bread and got five stale loaves

Dave L ii

Dear David

I leave today 6/8/90 - This means (I think) I've paid too much kitty. Use the excess to pay for the stamps & postcards I didn't pay for (mentioned earlier) and for the jammer & cow tails - in addition I have put in 1000 pts more to cover the extra expenses of the jammer & cow tails not already covered by the excess kitty money I have paid.

Dave

(216)

25<sup>th</sup> Julio en Jubbayn  
27<sup>th</sup> Julio Ilaga en Akiambro

Dow David

I have taken another 3 flat packs from the expedition store. This brings the total to 5 (2 more mentioned earlier not paid for). Please advise me on how much I owe before I go and spend it all.

Dave L i

Jenny - 2 stamps + 2 envelopes to pay for.

---

in book to here 7-8-90

I spent 625 on bread on 2/8 but forgot to list it  
I spent 250 on bread on 4/8 but forgot to list it  
I spent 7573 on food on 8/8  
I spent 875 on food on 8/8  
I have taken 1 flatpack which replaces the one I had which was used in my absence and was now flat and 2 more which are to replace the ones I donated to the amplifier in Big Jane which I assume I can have paid for by basket.  
Since you are charging me for use of the Van to Arionders I will charge you for use of the car at 7.5 p per mile and will advise you of cost at end of expedition.

~~XXXXXXXXXXXXXXXXXXXX~~  
Dave L



$$\begin{pmatrix} i & j & k \\ 0.1132 & -0.2488 & 0.9619 \\ -0.2504 & -0.4914 & 0.8616 \end{pmatrix} = \begin{pmatrix} 0.258312 \\ \cancel{0.117926} & 0.338393 \\ 0.117926 \end{pmatrix}$$

↑ normal vector  
to both lines

Take a point on  $AX'$

Normal  $\vec{n}$

$$\underline{x} = \alpha \begin{pmatrix} 0.1132 \\ -0.2488 \\ 0.9619 \end{pmatrix} + \begin{pmatrix} -48.89 \\ -62.86 \\ 64.39 \end{pmatrix} + \gamma \begin{pmatrix} 0.258312 \\ 0.338393 \\ -0.117926 \end{pmatrix}$$

Normal

$$\underline{x} = \beta \begin{pmatrix} -0.2504 \\ -0.4914 \\ 0.8616 \end{pmatrix} + (\delta - \gamma) \begin{pmatrix} 0.258312 \\ 0.338393 \\ -0.117926 \end{pmatrix}$$

$x^i - x^j$

$$\underline{B} = \delta \text{ Normal}$$

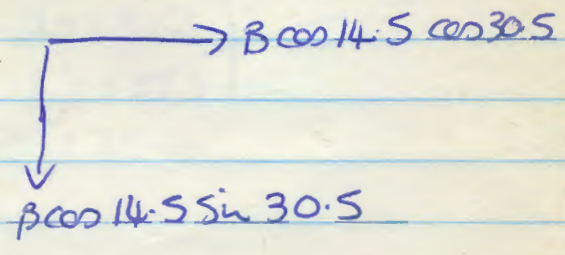
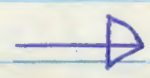
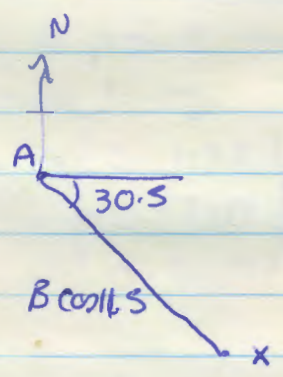
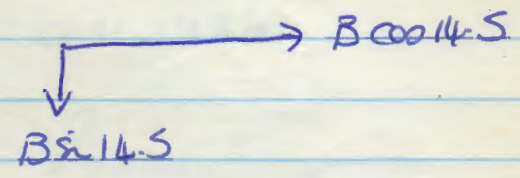
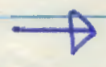
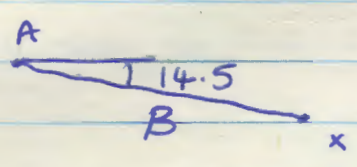
$$\alpha \begin{pmatrix} 0.1132 \\ -0.2488 \\ 0.9619 \end{pmatrix} + \begin{pmatrix} -48.89 \\ -62.86 \\ 64.39 \end{pmatrix} + \beta \begin{pmatrix} 0.2504 \\ 0.4914 \\ -0.8616 \end{pmatrix} = \delta \begin{pmatrix} 0.258312 \\ 0.338393 \\ -0.117926 \end{pmatrix}$$

$$\begin{pmatrix} 0.1132 & 0.2504 & -0.2583 \\ -0.2488 & 0.4914 & -0.3384 \\ 0.9619 & -0.8616 & 0.1179 \end{pmatrix} \begin{pmatrix} \alpha \\ \beta \\ \gamma \end{pmatrix} = \begin{pmatrix} 48.89 \\ 62.86 \\ 64.39 \end{pmatrix}$$

B18 ~~B17~~

From A → X

120.5 - 14.5



Point  $X'' = B \begin{pmatrix} -\sin 14.5 \\ \cos 14.5 \\ -\cos 14.5 \sin 30.5 \\ \cos 14.5 \cos 30.5 \end{pmatrix}$

$= B \begin{pmatrix} -0.2504 \\ 0.9681 \\ -0.4914 \\ 0.8016 \end{pmatrix}$

Let X be half way between  $X'$  &  $X''$



~~$\sin 6.5$   
 $-\sin 14.5 \cos 6.5$~~

$\begin{pmatrix} \sin 6.5 \\ -\sin 14.5 \cos 6.5 \\ \cos 14.5 \cos 6.5 \end{pmatrix} \wedge \begin{pmatrix} -\sin 14.5 \\ -\cos 14.5 \sin 30.5 \\ \cos 14.5 \cos 30.5 \end{pmatrix}$

$= \begin{vmatrix} i & j & k \\ \sin 6.5 & -\sin 14.5 \cos 6.5 & \cos 14.5 \cos 6.5 \\ \sin 14.5 & -\cos 14.5 \sin 30.5 & \cos 14.5 \cos 30.5 \end{vmatrix} = -\sin 14.5 \cos 6.5 \sin 14.5 \cos 30.5$

Vert	Ext	N	E
-48.89	145.28	-62.86	64.39

Point A  $\begin{pmatrix} 0 \\ 0 \\ 0 \end{pmatrix}$

Point B  $\begin{pmatrix} -48.89 \\ 145.28 \\ -62.86 \\ 64.39 \end{pmatrix}$

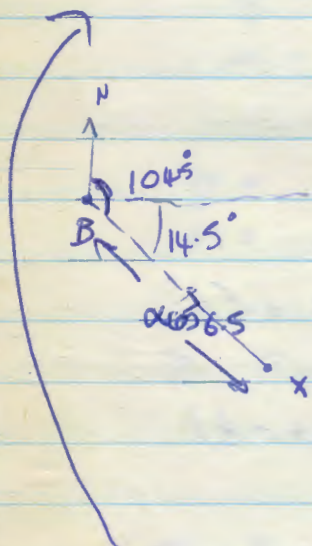
From B  $\rightarrow$  N

~~104.5~~ ~~14.5~~

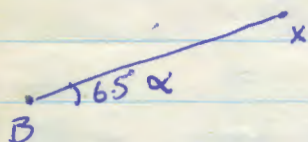
104.5° + 6.5

From A  $\rightarrow$  X

120.5° - 14.5



$$\begin{aligned} &\rightarrow \alpha \cos 14.5 \cos 6.5 \\ &\downarrow \\ &\alpha \sin 14.5 \cos 6.5 \end{aligned}$$



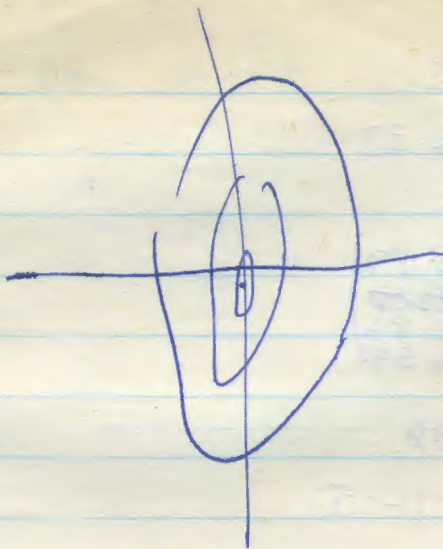
$$\begin{aligned} &\rightarrow \alpha \sin 6.5 \\ &\quad \quad \quad \alpha \cos 6.5 \end{aligned}$$

Point  $x'$  :  $\alpha \begin{pmatrix} \sin 6.5 \\ \cos 6.5 \\ -\sin 14.5 \cos 6.5 \\ \cos 14.5 \cos 6.5 \end{pmatrix} + \begin{pmatrix} -48.89 \\ 145.28 \\ -62.86 \\ 64.39 \end{pmatrix}$   $\leftarrow$  don't need this row

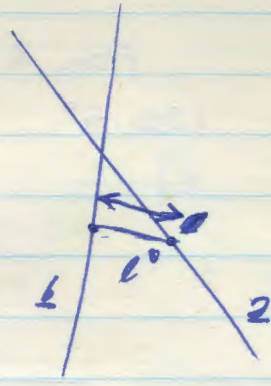
$$= \alpha \begin{pmatrix} 0.1132 \\ 0.9936 \\ -0.2488 \\ 0.9619 \end{pmatrix} + \begin{pmatrix} -48.89 \\ 145.28 \\ -62.86 \\ 64.39 \end{pmatrix}$$

(320)

~~(319)~~



$$l = \sin^2 \theta + \cos^2 \theta (\sin^2 \phi + \cos^2 \phi)$$



if  $\frac{d}{dt} \underline{a} = \eta (\underline{a} + \underline{b} + \underline{c}) + (\underline{d} + \underline{e} + \underline{f})$

$$\underline{b} = \mu (\underline{l} + \underline{m} + \underline{n}) + (\underline{p} + \underline{q} + \underline{r})$$

$$l^2 = (\eta a + \mu l - p)^2 + (\eta b + \mu m - q)^2 + (\eta c + \mu n - r)^2$$

$$l^2 = \eta^2 (a^2 + b^2 + c^2) + \mu^2 (l^2 + m^2 + n^2) + 2\eta\mu (al + bm + cn) - 2\eta (ap + bq + cr) + 2\mu (lp + mq + nr) + (p^2 + q^2 + r^2)$$

$$\frac{\delta l^2}{\delta \eta} = 2\eta (1) - 2(\mu (3) + (4)) = 0$$

$$\frac{\delta l^2}{\delta \mu} = 2\mu (2) - 2(\eta (3) + (5)) = 0$$

or

$$\eta (a^2 + b^2 + c^2) - \mu (al + bm + cn) - (ap + bq + cr) = 0$$

$$\mu (l^2 + m^2 + n^2) - \eta (al + bm + cn) + (lp + mq + nr) = 0$$

~~B20~~ B21

$$A = \sin \theta_1 \sin \theta_2 + \cos \theta_1 \cos \theta_1 \cos \theta_2 \cos \theta_2 + \cos \theta_1 \sin \theta_1 \cos \theta_2 \sin \theta_2$$

$$B = \sin \theta_1 X + \cos \theta_1 \cos \theta_1 Y + \cos \theta_1 \sin \theta_1 Z$$

$$C = \sin \theta_2 X + \cos \theta_2 \cos \theta_2 Y + \cos \theta_2 \sin \theta_2 Z$$

$$\begin{aligned} \eta - \mu A - B &= 0 & \eta &= \mu A + B \\ \mu - \eta A + C &= 0 & \mu &= \eta A - C \end{aligned}$$

$$\begin{aligned} \eta &= \eta A A - B A + B \\ \mu &= \mu A A + B A - C \end{aligned}$$

$$\eta = \frac{B - CA}{1 - A^2}$$

$$\mu = \frac{BA - C}{1 - A^2}$$

	V	N	θ		
			sin θ	cos θ	cos θ
77-73	-48.63	-62.86 ↑			+64.3
68-73	-48.89	-63.82 ↓			+59.44
77-74	113	-48	-0.743145	-0.261450	0.615928
73-74	012	-42½	0.675590	0.721166	0.153289
			17.157969	-89.767297	
	(A) = -0.596194	(B) = 92.23456	(C) = -68.318158		
78-75	120½	-14½	-0.250380	-0.491372	0.83418A
73-75	104½	6½	0.113203	-0.248771	0.961924
	(A) = 0.896317	(B) = 72.359693	(C) = 83.110523		
		(B) = 93.81464	(C) = 67.518833		
68-76	170½	+01	0.017452	-0.986135	0.165022
73-76	210½	29½	0.492424	-0.749924	-0.441732
	(A) = 0.075223	(B) = 73.467515	(C) = 42.771233		
		(B) = 21.890815	(C) = -2.471426		

The Kitty owes Gawin - 1540 for food  
" " " Skerry - 1300 " gas.

Fred Spurr -----> 375  
from the Kitty on bread.

Fred put in 65 for another postcard

Dave

I spent 375 pts on 5 loaves of bread and  
took it out of the Kitty -

Clare

Have put 9000 pts in the Kitty - the rest of the expedition kitty money  
I owe (and 55 pts for a stamp & envelope)

Trusts

here to  $\begin{array}{r} 2890 \\ 3687 \end{array}$

- cash 36072

stamps 270

Fred Spurr  
on less.

250 pias

Dave - I borrowed 2000 pts from  
Kitty &  
Skerry

10/8

~~B203~~ B23

8130 - Food  
392 Bread

Clare gave 185 for her stuff.

480 Post Cards  
1350 Stamps

Kitty owes Peter 865 Charge for 3 stamps

Dave B. has put in 9000

Jenny put in 3rd week kitty money of 3000 pts.  
(10 Aug 90).

Jenny owes 130 pts for 2 postcards + 2 stamps.

Sherry spent 375 pts of expedition money on bread  
(kitty was in Cangas)

Schorn spent 250 on bread

Fred " 250 " eggs.

Gavin took 1540 out :: that is what he was owed.

Steve put in 3000

B24

~~B23~~

Dave B is owed ~~20~~ ~~2000~~ ~~2 pence~~ → change to expdn.

Paul put 570 p<sup>ts</sup> into kitty for food he bought

Paul spent 200 p<sup>ts</sup> on bread.

Tristan put 620 into kitty for food he bought  
owes.

Dave B, 1300 p<sup>ts</sup> for food he bought.

Bank owes for 21 stamps

1 owe for 3 stamps

Low expdn 200 p<sup>ts</sup> → change to expdn

Simon put in 6000.

Tristan borrowed 1000.

~~Bank~~

Pat put in 1000 p<sup>ts</sup> for 2 p<sup>ts</sup> packs  
- owes 200 p<sup>ts</sup>

Bank owes ~~6000~~ for borrowed 6000

Tristan paid 115 p<sup>ts</sup> for 2 stamps + envelope + post card

Jenny paid 200 p<sup>ts</sup> for 3 stamps + 2 post cards.

Dave borrowed 5000.

Jenny borrowed 2000



~~B24~~ B25

Kitty spent ~9165 on meal  
" 8100 on beach

← 3000 to me  
3000 to Sherry  
3000 to Paul.

Gavin is owed 3150 petrol → exp.