Chord def. $= \frac{\text{chord}^2}{R}$

No. chords $= \frac{I}{D}$

Tan. def. $= \frac{1}{2}$ chord def.

e the radius, will equal

ion.

745 (def. for 1° for 1 ft.)

nd divide the product by

ance. Multiply the angle

ıde, divide by twice the

-.5 = 100.5 hyp.

o − 3.125 = 96.875 = Base.

ast, .045.

multiply weight per yard

and refraction, in feet

d is the distance in miles.

]d². The combined cor-

e discrepancies of various

the squares of these differ-

the probable error of the

. DEGREE

7	41′	.6833	51′	.8500
3	42	.7000	52	.8667
0	43	.7167	53	.8833
7	44	.7333	54	.9000
3	45	.7500	55	.9167
0	46	.7667	56	.9333
7	47	.7833	57	.9500
3	48	.8000	58	.9667
0	49	.8167	59	.9833
7	50	.8333	60	1.0000

A FOOT

½	⅝	¾	⅞
.0417	.0521	.0625	.0729
8	9	10	11
.6667	.7500	.8333	.9167

8-7-91

LAST ENTRY 9-18-90
NICE TO BE BACK AGAIN.
BROUGHT MY GIRLFRIEND THIS
TIME, SHE THINKS ITS
BEAUTIFUL HERE. SAW ONE
GOAT HERE + A COUPLE DOWN
BY HEART LAKE. SURE WAS
NICE BEING INSIDE DURING
THE DOWN POUR. MOSQUITOES
ATTACKED US, THANK GOD
FOR 100% DEET, AVON SH
SO SOFT DOESNT WORK
WORTH A SHIT. TAKING OF
TODAY, BEEN HERE SIN
8-5-91. WE'LL BE B
AGAIN SOON, MR. GOAT
JUST SHOWED UP AGA
WHAT COOL ANIMALS
NAT & RUSS 8-5-91 – 8-
NAT LUVS RUSS [redacted]

TILL NEXT TIME
WERE OUTTA HERE

8/10/91

Came up for the day, 4 of us. Brought horses + mules. Perfect weather. Saw a chipmunk. Snacked on Ritz crackers + canned bluebacks. Took a few pictures. No mosquitos. Temp about 70°.

(Pam + Wayne [redacted]
(POST FALLS, Idaho
(Roy + Lori [redacted]
(Spokane, Washington

8/27/91

3rd day of 4 days in paradise. The goats at the lookout, many does and a young buck at Mallard Lake last night. Cedars on #95 + #96 are awe-inspiring (A+B). Huckleberries for tonight's cheesecake. Thanks to everyone who has worked this cabin.

Praise to God, the author of all creation!

Tom + Kirste [redacted] + Coeur d'Alene, I
Michael + Diane [redacted] + Menlo Park, CA
Edward [redacted] + Dallas, TX

7-30-92

There are 7 of us up here scouting, we are having a good time the hike, about killed my father, but were up here. Were heading to north bound. Sek

Brent [redacted]
"Brent"

7-30-92

The night was rough probably slept about 10 minutes. I feel like hell, but thats all part of the game. Saw Six Mnt Goat down at the cut off trail. got some close-ups of them. Coming up on the road we saw a big Grizzly (at least I think, it was.

Well headed to Northbound. There is 19 more coming this morning.

Signed
a sore
hiker
Darin [redacted]
Pinehurst ID

If you saw one you would know not think.

8-12-9

Lots

Bunny

Trying

the

Hev

Wice

rough
about
I feel
hats
the
Mint
the
-ups
ning
road
big
AI

to
here
coming
g.

some
hiker
in [redacted]
hurst ID

8-12-92

Lots of stupid
Bunny huggers
trying to save
this land well
they can go hol
Wice View.

Wes [redacted]

Dear Journal Aug. 14, 1992
this week has
really been quite fun
but this peak is the
peak of the Trip

Joel [redacted]

Dear Lorand
this has been a fun
week I want to come
back. Not? 92

Billy [redacted]

Dear Journal,
It has been intresting &
challenging. I've had much memories
climbing the Mallard Lankens,
Trials.

Nathan [redacted]

Dear Jornal,
I don't
lady [illegible]
but I ma
my friend
I just don't
[illegible]

Nate [illegible]

August 14,
The Climb
Difficult
also [illegible]
came up
Northbound
Know why
the trail [illegible]

1992
[illegible]

Dear
for the

ug. 14, 1992
has
e fun
is the
ip

[redacted]

a fun
to come

92

[redacted]

intresting &
ad much memories
and Lankens,
Trials,

[redacted]

Dear Jonas,
I don't know why any
body would love this
but I made it and if me and
my friends can make it we
I just don't know but
I [illegible] Dabe part

Nate [redacted]

August 14, 1992 11:02 AM
The Climb up was Ve
Difficult. It was
also very hot. We
came up after a hike f
Northbound lake. I do
know why they had t
the trail so steep!

[redacted]

1992
8/14

[redacted]

I can't wait to get home
for the ~~Dance~~ Dance

9/29/92 Clear winds
15-20 mph 70°+

8/9/94 It's better on the Mountain Top!
Jeff & Kimberly
It took us 2 hrs to hike. Beautiful!!

8/18/94
Two Mt bikers; Chris [redacted] & ERIC [redacted]
HAVE ventured to Malard lake.
e: Major fire East of this
out.
But other-wise it's as
utiful as ever!
Of course we scaled
the granit cliffs to get
here And know we will take
the trail down. 8:30 PM 75°+ NO WIND
Tomarrow
on to FAWN Lk.

Boy Scouts
Troop 497 - S
12:16 pm
Weather is 8
clouds on H
Took 2 hr
Mallard Lo
Played in
cabin -
N

8-4-95
Came with
it is
took lots o
I have

winds
70°t

u, on
Top!
imberly
as to
al!!

s; Chris
Fredrieson;
alard lake.
of this
it's as
e scaled
to get
we will take
2 PM 75°K NO WIND
N Lk.

Boy Scouts 8-4-95

Troop 497 - Spokane WA
12:16 pm
Weather is 80°F, Clear, w/ Fluff clouds on Horizon.
Took 2 hrs to hike up from Mallard Lake.
Played in snow. Love this cabin -
Mike [redacted]

8-4-95
Came with Mike [redacted]
it is very nice out
took lots of Pictures
I Love this Place
Brian
[redacted]

n C
A
+B)
°—(A+B)
the
ft.
tal
ne
e
w-
41.
ist-
ft.,

7-17-96

3rd trip in - First one was 8 years Ago. Beautiful weather - sunny - 80° with a few clouds. Camped Northbound the first night & ared the place with a cow elk. w 9 goats @ the saddle. Excellent b on the floor. still quite a t of snow but the hike is t bad. Dary + Jim + I have more night. We're heading Fawn lake. We are the ones in here & it is most tful. To Sherry [redacted] the looks better - AND THE THER IS DEFINITELY R. May the Sun always on your Trail.

Take care!

Chris [redacted]

Mullan, Idaho

July 21, 199

Our fami for the we some tim brother, Jo leaves fo camp is o and we thre chiked up t while our dog Beano were very d brother coul because he will miss wish him the Arm extraordin the last n him.

God Bl

April

Gah

as 8 years
-sunny
camped
night &
cow elk.
lle. Excellent
quite a
ike is
5 have
heading
re the
it is most
ite - the
THE
ITELY
always
l.
are!

[redacted]

Idaho

July 21, 1996

Our family of 6 came up for the weekend to spend some time with our brother, Joshua, before he leaves for the Army. Our camp is at Mallard Lake and us three girls (ages 16) hiked up the mountainside while our Mom & Dad (and dog Beans) took the trail. We were very disappointed our brother couldn't make that because he got sick. We will miss him dearly wish him the best of l[illegible] in the Army. This was a extraordinary place to the last few days with him.

God Bless All,

April, Rebecca, Tamm[illegible]

[illegible] (Dad) Carol (Mom)

[redacted]

Aug 20, th 96
Frank + Nick [redacted]
Leaving to Heart Lake
and departing through
rail along Northbound
Creek!
eptembre 5, 1996
ufus [redacted] (ANTONE [redacted]
afing through all the olde journals - there's
pieces missing since I started
here in '77. I see I met Phil Drexer
5/83 - he thought he owned the mtn. that
e then have floated rivers w/Phil. Andy
s a hiking fool in the 80's, maybe late
other f.s. bozo, as was I for awhile.
winds and cold weather on Snow Pk -
hipping up. Yesterday rain, snow, sleet
nce. Today Loved waking up to lifting
still in sky and gorgeous clouds
definitely breaking (me hopes). Will
next couple days in area by
ck - looking for goats; none here
this moment.
This whole area needs to be part
wilderness act! The Checkerboard
d enough and the south canyon face's
ive clearcuts are sad. These mountains are
really special. Some of my favorite

anywhere! Vira
Anyone who knows
send to me at Box
please. He retired U
be 81 or so now
P.S. The shutters ha
I was last here. I
however, camping be
tomorrow! Later:
to cook supper & fo
below camp - dry thi
Back up for Sun
today - one Kes
Weather mostly cl
less than an ho
Great huckleberri

9/8/96 Du
broken clou
windy Kas

9/28-29/96 Ken
Gary [redacted] Dor
[redacted], Spent
moon & sunset
WARM

ki

l

quist)
nals - there's
started
t Phil Drexer
the mtn that
w/Phil. Andy
80's, maybe late
t for awhile.
er on Snow Pk -
, snow, sleet
up to lifting
orgeous clouds
pes). Will
nea by
one here

be part
eckerboard
canyon face's
ins are
my favorite

...where! Viva La Wilderness!

Anyone who knows Frank Barnard's address send to me at Box 8404 Moscow Id 83843 please. He retired USFS in early 80's - he'd be 81 or so now. Great man to work for PS. The shutters have been repaired since I was last here. I'm not staying atop, however, camping below on saddle. Maybe tomorrow! Later: Went down to camp to cook supper & found water approx 500 below camp - dry this year at this time. Back up for sunset. No goats today - one kestrel drove by. Weather mostly clear now & 4 ... less than an hour before sunset. Great huckleberries, starting to sh...

9/8/96 Sun is shining broken clouds cold & windy Mass Jones age

9/28-29/96 Ken [redacted] Paul ... Gary [redacted] Doran [redacted] Ron [redacted] Spent [redacted] w/ Full moon & sunset, clear skies & warm

10-12-94 Camped @

MALLARD LAKE, HUNTING
ELK. GREAT CAMP, GREAT
COMPANY —

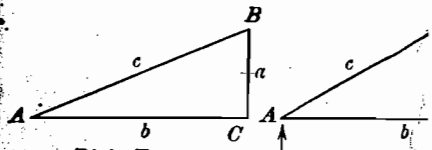
Casey [redacted] & DAVID [redacted]

1/97

ST TIME IN THIS NECK OF THE
S. MOST OF OUR HIKING HAS BEEN
ND CDA. RESTLESS NIGHT LAST NIGHT.
E DEER BUCK IN CAMP ALL NIGHT.
BOYS & I DECIDED THIS WOULD BE
DAY HIKE UP FROM CAMP AT
ALSO A GREAT WAY TO ESCAPE
MOSQUITOES!! HOPE TO BE BACK SOON!
KEVIN, MICHAEL, & STEPHEN [redacted]
CDA, IDAHO

[illegible] mountains
[illegible] special. Some of my [illegible]

TRIGONOMETRIC



Right Triangle

Solution of Righ

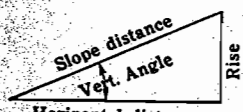
For Angle A. $\sin = \frac{a}{c}$, $\cos = \frac{b}{c}$, $\tan =$

Given	Required	
a, b	A, B, c	$\tan A = \frac{a}{b} = \cot B$
a, c	A, B, b	$\sin A = \frac{a}{c} = \cos B$
A, a	B, b, c	$B = 90° - A$, $b =$
A, b	B, a, c	$B = 90° - A$, $a =$
A, c	B, a, b	$B = 90° - A$, $a =$

Solution of Obliq

Given	Required	
A, B, a	b, c, C	$b = \frac{a \sin B}{\sin A}$, $C =$
A, a, b	B, c, C	$\sin B = \frac{b \sin A}{a}$, C
a, b, C	A, B, c	$A + B = 180° - C$,
a, b, c	A, B, C	$s = \frac{a+b+c}{2}$, $\sin \frac{1}{2} A$ $\sin \frac{1}{2} B$
a, b, c	Area	$s = \frac{a+b+c}{2}$, area
A, b, c	Area	area $= \frac{b c \sin A}{2}$
A, B, C, a	Area	area $= \frac{a^2 \sin B \sin}{2 \sin A}$

REDUCTION TO



Horizontal dista
cosine of the vert
Vert. angle = 5°
distance = 319.4×.
Horizontal dista
distance times (
same figures as
ing result is obta
319.4×.0041 = 1.31.

When the rise is known, the horizontal dis
ance less the square of the rise divided by twic
slope distance = 302.6 ft. Horizontal distance =