

13 April 84

still → Mra

Stars & their
orbital

If your letter had been two days later I
would have been gone on a trip. I
am not at home. I ever refused answering
any questions you ever asked me but
the one concerning the lecture on Geography
& it was out an utter impossibility at that
time. I will not answer these but I
will try, do the best I can. I am not
posted of late on Astronomy & cannot give
you much information on the sub.
Kepler was the first to discover that
the E. Orbit was elliptical. In the 1604
Heumann's fruitless efforts to represent
the orbit of Mars by combination of uniform
circular motions (That is by
epicyclic curves) he discovered by comparing
together seven positions of that planet,
that its orbit is elliptical. whence he con-
cluded that of orbits of each planet is an
ellipse, with ^{the} sun placed in one of its
foci. Having next ascertained the dimensions
of the orbit of Mars. He found that the
radius vector, or line joining the planet
& the sun, described equal areas in
equal times. & that the same was true of the other

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Miss Nora E. Crockett

Will my dear

Nora I suppose you are waiting
for this letter patiently. Just recd; you
this evening and was somewhat
bewildered with the contents. I am
inclined to think that you never
got my last two letters. I am
going to date every letter I recd;
from you and every one I write & see
if there isn't something wrong I
know I have written two letters since
I have had and answer. Must be
something out of place. Don't
you think you are kind of ruff and
me? Your letters never be around
seldom if ever one day if they do I always
tell you. It is quite difficult to get mail here

I always answer as soon as I can
I am thinking you are blaming
me with all mistakes made I am
ready & willing to bear my share
You are quite sensitive today. Don't be so
I beg you. write when you feel like it
and I will answer you I answer every one
I get. Your reasons are not founded on good
conclusions. I would be pleased to have
two long letters from you every week &
would try to answer every one of them
I have written you as long letters as you
have me. Have I not?

I am glad you had a good time
in the City & met so many old friends
There is nothing so nice, in a review
than to call up the pros & books at the
sunny pages & think of what might
have been. Our Friend Charlie must
be a nice fellow. glad you think well
of him. Hope you will always be friends

I am sorry that I can't be that
would like ever so much to hear you
give an account of your trip ^{and if you have}

I'm making the acquaintance of that
extraordinary person. Although you
you did not say what service he rendered
you! I am glad you found him so
bright. There are plenty in this
world, my superiors (I doubt you think
him to be) as I have often told you
As for good books that has nothing
to do with the man. If he has a good
honest heart. & is candid & truthfull
virtuous & upright, he is worthy of the majority
of girls. Hope your late friend is a man of the
stars. Allow me to thank him for
the favor he conferred on you

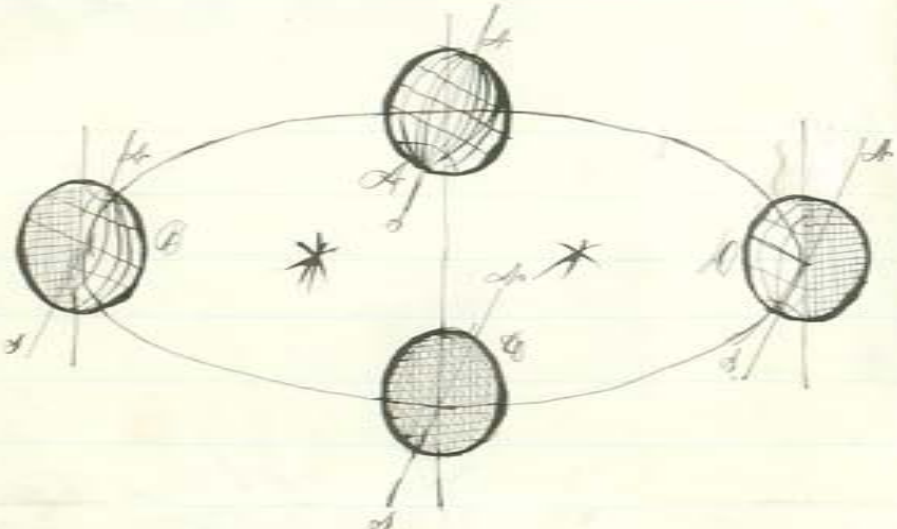
Your Friend Maggie is a
lucky girl. If she can say the same
20 years from now she is in big luck
marriages of recent date are not as congenial
as they were in earlier times. Young people
are more fickle now a days. When I
get married I want the happiest part
of my life to come afterward. I have
answered your letter as best I could & will
now answer your questions.

Wearis and other page to fill, and I hardly
know what to write. I am going to St Charles
to morrow & will not be back for a week or
two you may add your letters there &
if you do not get an answer as soon as you
wish for one don't be get angry but take
your pen & write me a long letter instead
I will answer as soon as I get them
I have all of my posts made & the wire
to fence as soon as the snow is gone & the
I have finished this job I shall leave the
country for a while. I will be in Logan as
soon as I can get there. I had advised
about you the other night & it made
meazy. I hope you are well. I shall see
you soon if all is well I have a query
to ask you, if you will allow me. Between
what is planets and the asteroids?

I am ever your true and
unworthy friend

Wm. A. Brand.

But why it was he never found out
to my present knowledge I remember
once at our school of hearing Mr. Tolson
lecturing on the ellipsis of the planet but
it has been so long ago I have forgotten
I believe he said it was on account of the
two forces acting. The centripetal ^{force} ~~that~~ has a
to draw to the sun & centrifugal to draw
from. and at different seasons of the year these
forces vary. owing to the fact the sun
is placed in. The reason why the orbit is
elliptical I am not prepared to answer
at present it has been over four years
since I have given any attention to
this study. I will draw you a
cut on the next page & illustrate
when the forces predominate. I feel
like I had made some mistake
(no doubt I have) not seeing a work of this
kind for some time. If I have in your next let
me know and I will



From A to B the centrifugal is the stronger that is from May till June then from B to C the centripetal predominates from June till Sep then from C to D the centrifugal predominates that is from Sep till Dec. Then from D to A the centripetal is the stronger from Dec. to March.

This is all I will be able to give this time and could not say that it is right. If you have any different opinion I would be glad it to hear it. The question on the sentence I gave you in Myrrour was. It took Room three hundred years to die.

Well my dear I hope this will reach you in good time, and you will keep a list of all the letters you get from me (the date & how long before you get it) I would like very much to meet that smart good looking & intelligent acquaintance of yours, I know I should like him! What a pity you could not change his countenance! I think if you could change his heart the countenance would change I think people's countenance is parallel with the heart & a change made in one necessarily affects a change in the other I have found it in my experience at least. an honest heart has a serene countenance & a sene countenance has ten honest heart - and if ever I should surmount my claim on you, to any other man I would want it to be a man of this kind, I would hate to then but if I had to I would deed like a man. Time will tell, we have but to wait & see. I am in no hurry if I can win the victory he it a you or too for now