I’m illustrating how I solve GHA/Time calculations in the first paragraph below. In the second paragraph, I pose a question which I have no idea how to begin to solve.

The first paragraph below is straight forward (please correct me if there is a mistake). The second paragraph is the puzzle I need help solving.

1. If I wanted to interpolate the **GHA** of the **Moon** on Feb. 28, 2020. at a specific time between 03.00.00*UT* and 04.00.00*UT*, e.g. 03.32.38*UT*, I would note the GHA for each of those hours and set up the following relationship, e.g.:

UT GHA

/-----03hr 174.93° -----\

/ \

60 32.38min X° 14.58°

\ /

\-----04hr 189.51°-----/

Solving the proportion, X° = 7.63°, Then, 174.93°+7.63°=182.56°GHA Moon at 03hr 32min 23min on Feb. 28, 2020.

1. **But** what I would like to be able to do is solve for the **TIME** that the GHA of the Moon is “zero°/360°” on Wednesday, March 4, 2020 between the hours of 19.00.00*UT* and 20.00.00*UT*. I don’t know how to set up the relationship that will yield the time when the GHA of the Moon = 0.

The following is as far as my imagination will take me in my effort to solve for the time at which the GHA of the Moon is zero° on Tuesday, March 4, 2020 some time between the hours of 19.00.00*UT* and 20.00.00*UT*:

UT GHA

/-----19.00hr 349.29° -----\

/ \

60 X min 360° ??.??°

\ /

\-----04.00hr 003.77°-----/

Steve OCBC/USPS

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