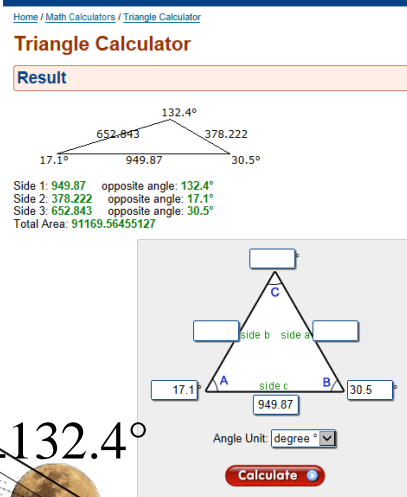


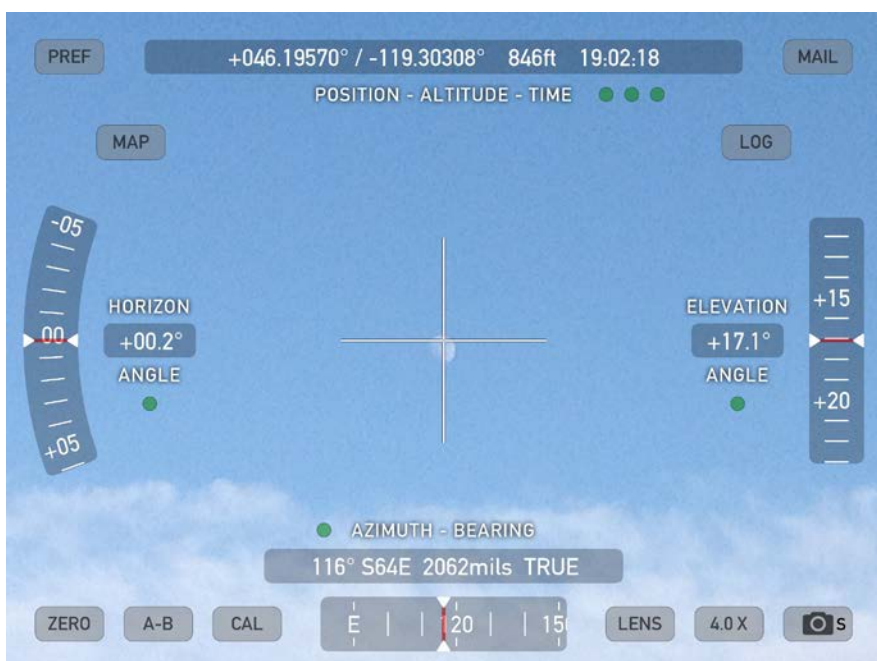
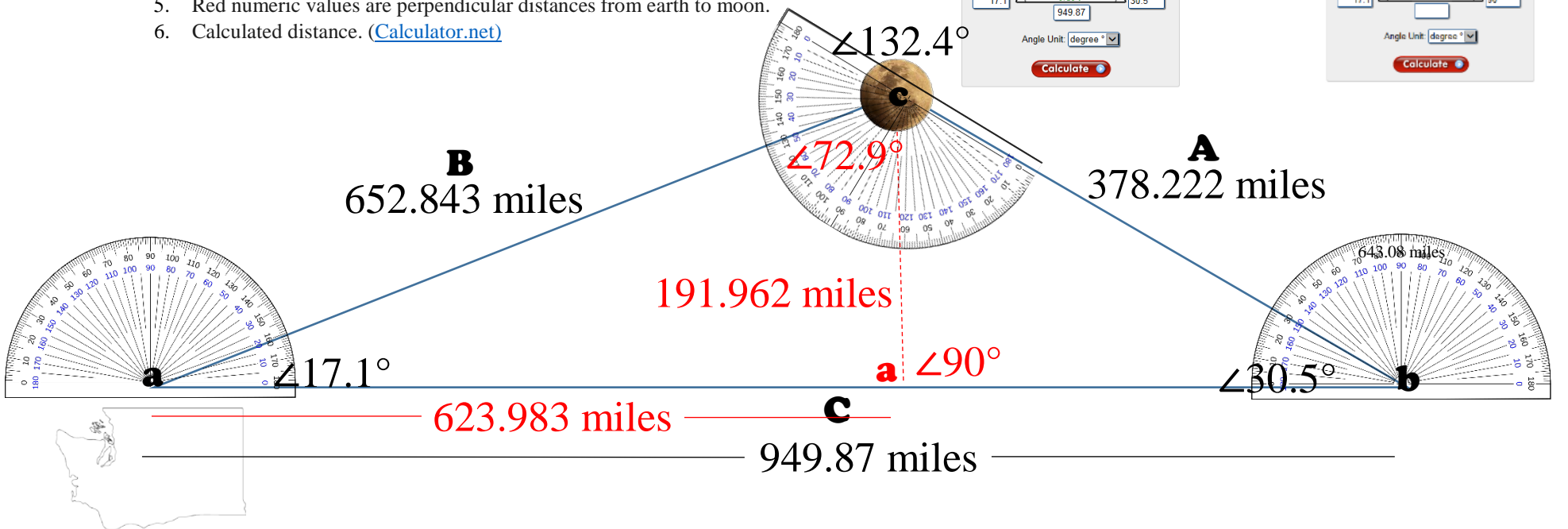
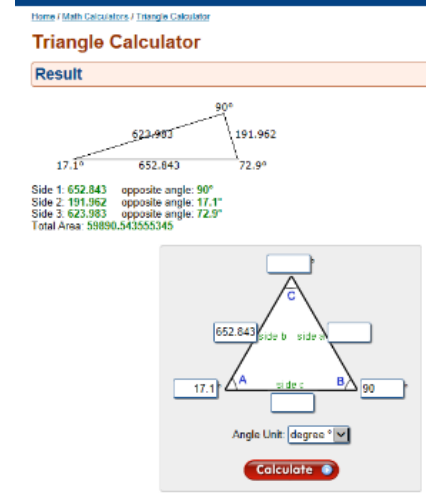
Summary of Experiment:

- Distance – 949.87 mi (1,528.66 km)
- Summary of Marks readings:
 - Elevation Angle $\angle 30.5^\circ$
 - Facing -1° (North-west)($179^\circ - 180^\circ$)
 - Date/Time 7/4/2017 20:02:19
- Summary of Mickeys readings:
 - Elevation Angle $\angle 17.1^\circ$
 - Facing 116° (South-east)
 - Date/Time 7/04/2017 19:02:18 (1 hour time difference)
- Difference in Time 1 second
- Red numeric values are perpendicular distances from earth to moon.
- Calculated distance. (Calculator.net)

Black Numbers
Calculator.net

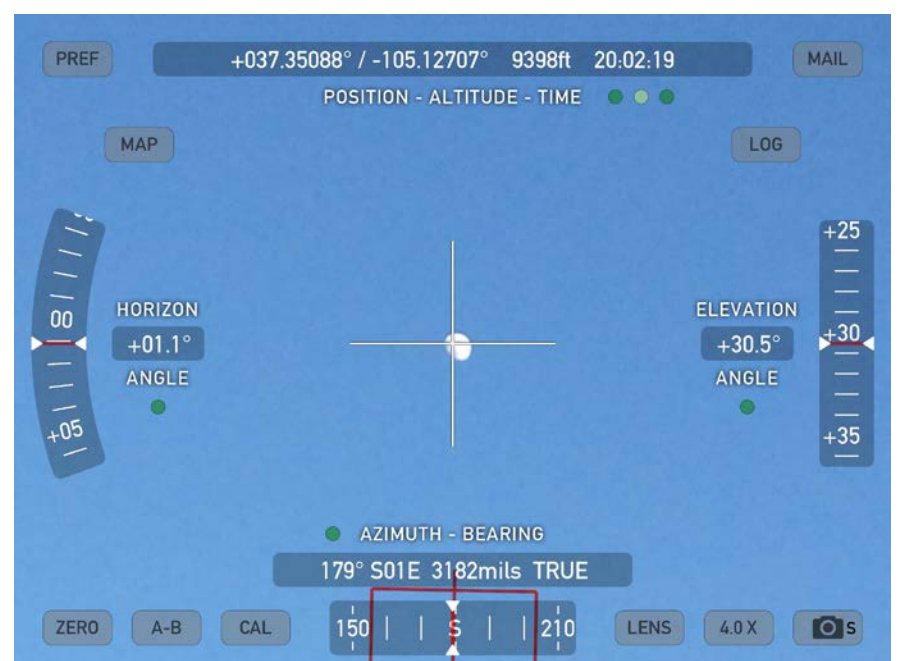


Red Numbers
Calculator.net



Kennewick, WA actual

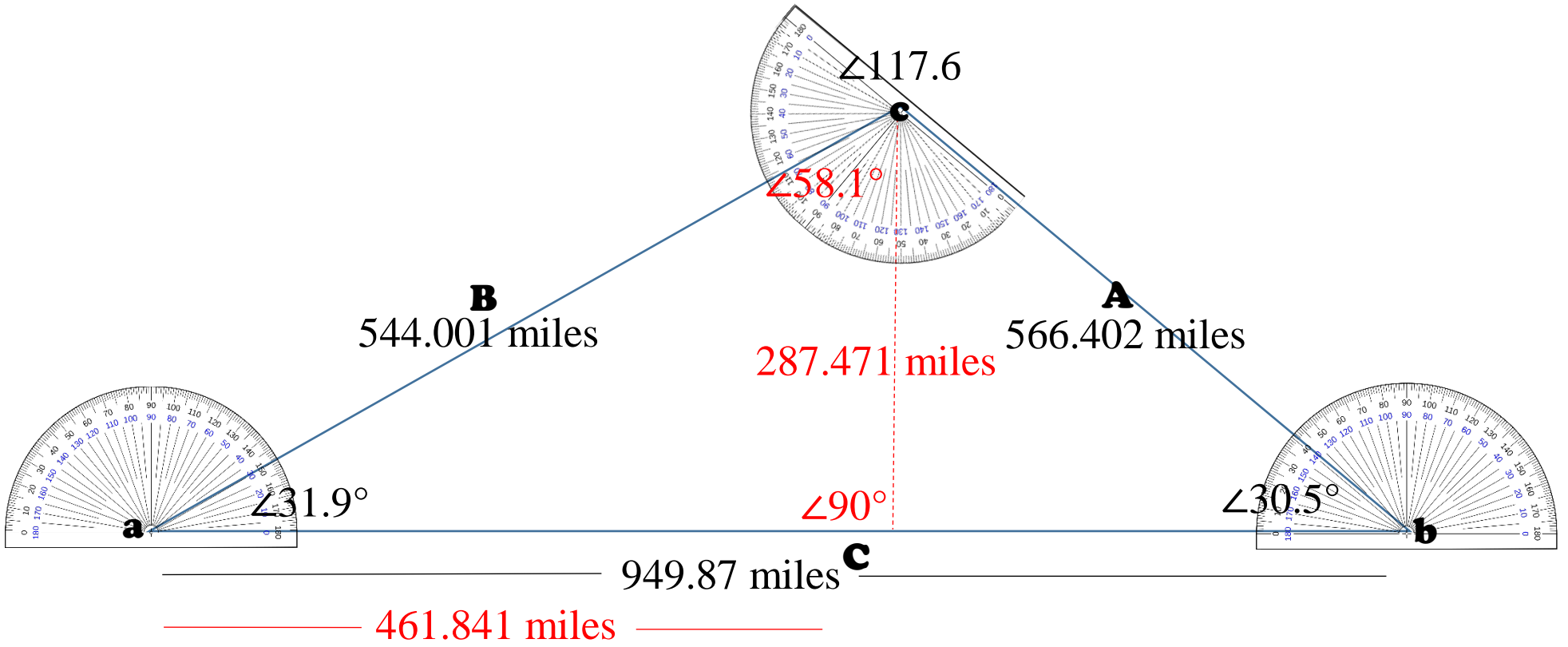
THEODOLITE



La Veta, CO actual

Factoring in curvature of the earth:
 $949.87 \text{ miles} / 64.17 \text{ miles per degree} = \angle 14.8^\circ$

Adjusting one side for the curvature: $\angle 17.1^\circ + \angle 14.8^\circ = \angle 31.9^\circ$



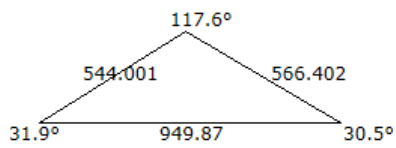
Black Numbers

Calculator.net

Home / Math Calculators / Triangle Calculator

Triangle Calculator

Result



Side 1: 949.87 opposite angle: 117.6°
 Side 2: 566.402 opposite angle: 31.9°
 Side 3: 544.001 opposite angle: 30.5°
 Total Area: 136529.98337291

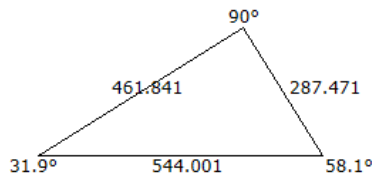
Red Numbers

Calculator.net

Home / Math Calculators / Triangle Calculator

Triangle Calculator

Result



Side 1: 544.001 opposite angle: 90°
 Side 2: 287.471 opposite angle: 31.9°
 Side 3: 461.841 opposite angle: 58.1°
 Total Area: 66383.007276486

$24,901 \div 360 = 64.17$

Therefore, every 64 miles is one degree...

Distance in Miles	Degrees	Distance in Miles	Degrees	Distance in Miles	Degrees
64.1694	1	1925.082	30	3785.9946	59
128.3388	2	1989.2514	31	3850.164	60
192.5082	3	2053.4208	32	3914.3334	61
256.6776	4	2117.5902	33	3978.5028	62
320.847	5	2181.7596	34	4042.6722	63
385.0164	6	2245.929	35	4106.8416	64
449.1858	7	2310.0984	36	4171.011	65
513.3552	8	2374.2678	37	4235.1804	66
577.5246	9	2438.4372	38	4299.3498	67
641.694	10	2502.6066	39	4363.5192	68
705.8634	11	2566.776	40	4427.6886	69
770.0328	12	2630.9454	41	4491.858	70
834.2022	13	2695.1148	42	4556.0274	71
898.3716	14	2759.2842	43	4620.1968	72
962.541	15	2823.4536	44	4684.3662	73
1026.7104	16	2887.623	45	4748.5356	74
1090.8798	17	2951.7924	46	4812.705	75
1155.0492	18	3015.9618	47	4876.8744	76
1219.2186	19	3080.1312	48	4941.0438	77
1283.388	20	3144.3006	49	5005.2132	78
1347.5574	21	3208.47	50	5069.3826	79
1411.7268	22	3272.6394	51	5133.552	80

From Stellarium.org

Kennewick, WA 99338



La Veta, CO 81055

