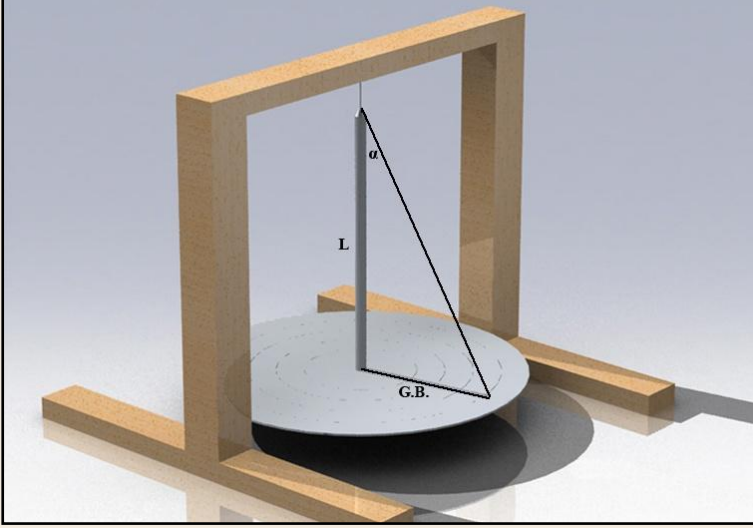




Veri Kağıdı



L : demir çubuğun boyu

GB : gölgenin boyu

α : güneş ışınlarının demir çubukla yaptığı açı (bu değer, arka sayfadaki çevrim tablosundan alınacaktır)

AB: İki şehir arasındaki uzaklık

DÇ : Dünya'nın çevresi

r : Dünya'nın yarıçapı

V : Dünya'nın hacmi

VERİLER:

$$L = 50 \text{ cm}$$

$$GB = \dots\dots\dots \text{cm}$$

$$\alpha = \dots\dots\dots^\circ$$

VERİLERİN DEĞERLENDİRİLMESİ:

$$\alpha_A = \dots\dots\dots^\circ$$

$$\alpha_B = \dots\dots\dots^\circ$$

$$\alpha_{\text{fark}} = \alpha_A - \alpha_B = \dots\dots\dots^\circ$$

$$D\check{C} = \frac{AB \times 360^\circ}{\alpha_{\text{fark}}} = \dots\dots\dots \text{ km}$$

$$r = \frac{D\check{C}}{2\pi} = \dots\dots\dots \text{ km}$$

$$V = \frac{4\pi r^3}{3} \dots\dots\dots \text{ km}^3$$

"Yaşadığım Gezegeni Öğreniyorum" Çevrim Tablosu

G.B	tanα	Açı	G.B	tanα	Açı	G.B	tanα	Açı	G.B	tanα	Açı	G.B	tanα	Açı	G.B	tanα	Açı			
10.0	0.200	11.31	13.0	0.260	14.57	16.0	0.320	17.74	19.0	0.380	20.81	22.0	0.440	23.75	25.0	0.500	26.57	28.0	0.560	29.25
10.1	0.202	11.42	13.1	0.262	14.68	16.1	0.322	17.85	19.1	0.382	20.91	22.1	0.442	23.85	25.1	0.502	26.66	28.1	0.562	29.34
10.2	0.204	11.53	13.2	0.264	14.79	16.2	0.324	17.95	19.2	0.384	21.01	22.2	0.444	23.94	25.2	0.504	26.75	28.2	0.564	29.42
10.3	0.206	11.64	13.3	0.266	14.90	16.3	0.326	18.06	19.3	0.386	21.11	22.3	0.446	24.04	25.3	0.506	26.84	28.3	0.566	29.51
10.4	0.208	11.75	13.4	0.268	15.00	16.4	0.328	18.16	19.4	0.388	21.21	22.4	0.448	24.13	25.4	0.508	26.93	28.4	0.568	29.60
10.5	0.210	11.86	13.5	0.270	15.11	16.5	0.330	18.26	19.5	0.390	21.31	22.5	0.450	24.23	25.5	0.510	27.02	28.5	0.570	29.68
10.6	0.212	11.97	13.6	0.272	15.22	16.6	0.332	18.37	19.6	0.392	21.41	22.6	0.452	24.32	25.6	0.512	27.11	28.6	0.572	29.77
10.7	0.214	12.08	13.7	0.274	15.32	16.7	0.334	18.47	19.7	0.394	21.50	22.7	0.454	24.42	25.7	0.514	27.20	28.7	0.574	29.86
10.8	0.216	12.19	13.8	0.276	15.43	16.8	0.336	18.57	19.8	0.396	21.60	22.8	0.456	24.51	25.8	0.516	27.29	28.8	0.576	29.94
10.9	0.218	12.30	13.9	0.278	15.54	16.9	0.338	18.68	19.9	0.398	21.70	22.9	0.458	24.61	25.9	0.518	27.38	28.9	0.578	30.03
11.0	0.220	12.41	14.0	0.280	15.64	17.0	0.340	18.78	20.0	0.400	21.80	23.0	0.460	24.70	26.0	0.520	27.47	29.0	0.580	30.11
11.1	0.222	12.52	14.1	0.282	15.75	17.1	0.342	18.88	20.1	0.402	21.90	23.1	0.462	24.80	26.1	0.522	27.56	29.1	0.582	30.20
11.2	0.224	12.63	14.2	0.284	15.85	17.2	0.344	18.98	20.2	0.404	22.00	23.2	0.464	24.89	26.2	0.524	27.65	29.2	0.584	30.28
11.3	0.226	12.73	14.3	0.286	15.96	17.3	0.346	19.09	20.3	0.406	22.10	23.3	0.466	24.99	26.3	0.526	27.74	29.3	0.586	30.37
11.4	0.228	12.84	14.4	0.288	16.07	17.4	0.348	19.19	20.4	0.408	22.20	23.4	0.468	25.08	26.4	0.528	27.83	29.4	0.588	30.46
11.5	0.230	12.95	14.5	0.290	16.17	17.5	0.350	19.29	20.5	0.410	22.29	23.5	0.470	25.17	26.5	0.530	27.92	29.5	0.590	30.54
11.6	0.232	13.06	14.6	0.292	16.28	17.6	0.352	19.39	20.6	0.412	22.39	23.6	0.472	25.27	26.6	0.532	28.01	29.6	0.592	30.63
11.7	0.234	13.17	14.7	0.294	16.38	17.7	0.354	19.49	20.7	0.414	22.49	23.7	0.474	25.36	26.7	0.534	28.10	29.7	0.594	30.71
11.8	0.236	13.28	14.8	0.296	16.49	17.8	0.356	19.60	20.8	0.416	22.59	23.8	0.476	25.45	26.8	0.536	28.19	29.8	0.596	30.79
11.9	0.238	13.39	14.9	0.298	16.59	17.9	0.358	19.70	20.9	0.418	22.68	23.9	0.478	25.55	26.9	0.538	28.28	29.9	0.598	30.88
12.0	0.240	13.50	15.0	0.300	16.70	18.0	0.360	19.80	21.0	0.420	22.78	24.0	0.480	25.64	27.0	0.540	28.37	30.0	0.600	30.96
12.1	0.242	13.60	15.1	0.302	16.80	18.1	0.362	19.90	21.1	0.422	22.88	24.1	0.482	25.73	27.1	0.542	28.46	30.1	0.602	31.05
12.2	0.244	13.71	15.2	0.304	16.91	18.2	0.364	20.00	21.2	0.424	22.98	24.2	0.484	25.83	27.2	0.544	28.55	30.2	0.604	31.13
12.3	0.246	13.82	15.3	0.306	17.01	18.3	0.366	20.10	21.3	0.426	23.07	24.3	0.486	25.92	27.3	0.546	28.63	30.3	0.606	31.22
12.4	0.248	13.93	15.4	0.308	17.12	18.4	0.368	20.20	21.4	0.428	23.17	24.4	0.488	26.01	27.4	0.548	28.72	30.4	0.608	31.30
12.5	0.250	14.04	15.5	0.310	17.22	18.5	0.370	20.30	21.5	0.430	23.27	24.5	0.490	26.10	27.5	0.550	28.81	30.5	0.610	31.38
12.6	0.252	14.14	15.6	0.312	17.33	18.6	0.372	20.41	21.6	0.432	23.36	24.6	0.492	26.20	27.6	0.552	28.90	30.6	0.612	31.47
12.7	0.254	14.25	15.7	0.314	17.43	18.7	0.374	20.51	21.7	0.434	23.46	24.7	0.494	26.29	27.7	0.554	28.99	30.7	0.614	31.55
12.8	0.256	14.36	15.8	0.316	17.54	18.8	0.376	20.61	21.8	0.436	23.56	24.8	0.496	26.38	27.8	0.556	29.07	30.8	0.616	31.63
12.9	0.258	14.47	15.9	0.318	17.64	18.9	0.378	20.71	21.9	0.438	23.65	24.9	0.498	26.47	27.9	0.558	29.16	30.9	0.618	31.72

GB = Gölge boyu(cm)

tanα= Gölge boyu/Demir çubuğun uzunluğu

α=Güneş ışınlarının çubukla yaptığı açı(°)

