1 AHO: t1=t2; R2=2R1; T0=24"; M0=5,974.10" Kr

HAUTU: RIUR2 -?

PEWEHUE:

Т.к. СЛУТНИКИ ВСЕГДА ОДНОВРЕМЕННО ПОЯВЛЯЮТСЯ В НЕБЕ

HABAHDATENS, TO UX CUHDLUYECKUE NEPUOLDI PABHO :

$$\frac{1}{S_{1,2}} = \left| \frac{1}{T_{\oplus}} \pm \frac{1}{T_{1,2}} \right|$$

$$\frac{1}{S_1} = \frac{1}{T_{\oplus}} + \frac{1}{T_1}$$

$$\frac{1}{S_2} = \frac{1}{T_{\oplus}} + \frac{1}{T_2}$$

$$= \sum_{i=1}^{n} T_i = T_2, \text{ HO TAKOFO HE MOWET BUTS, T.K. } R_1 \neq R_2$$

$$\frac{1}{S_2} = \frac{1}{T_{\oplus}} + \frac{1}{T_2}$$

$$\frac{1}{S_1} = \frac{1}{S_2}$$

2- ๐๐ พรฯคน์:

$$\frac{1}{S_1} = \left| \frac{1}{T_0} - \frac{1}{T_1} \right|$$

$$\frac{1}{S_2} = \left| \frac{1}{T_{\oplus}} - \frac{1}{T_2} \right|$$

$$\frac{T_2^2}{T_1^2} = \frac{R_2^3}{R_1^3} = 8 \Rightarrow T_2 = 2\sqrt{2}T_1$$

$$\frac{1}{T_1} - \frac{1}{T_0} = \frac{1}{T_0} - \frac{1}{T_2}$$

$$\frac{1}{T_1} + \frac{1}{2\sqrt{2}T_1} = \frac{2}{T_{\oplus}} \Rightarrow 2\sqrt{2}T_1 = \frac{T_{\oplus}(1+2\sqrt{2})}{2}$$

$$T_1 = \frac{T_{\oplus}(1+2\sqrt{2})}{4\sqrt{2}} \approx 16, 2^h, T_2 \approx 45, 9^h$$

$$R_1 = \sqrt{\frac{GM_{\odot}T_1^2}{4\pi^2}} \approx 32.5 \cdot 10^3 \text{ kM}$$

R2 = 2R1 = 65.103 KM

OTBET: 32,5.403 KM U 65.103 KM