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*Mohammed Sobhi*

حل التمرين 10

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$$F = \frac{G.M_T.M_L}{d^2} = \frac{G.M_T \cdot \frac{1}{83} \cdot M_T}{d^2} \Rightarrow F = \frac{G.M_T^2}{83.d^2} \quad -1$$

-2 تطبيق عددي :

$$F_1 = \frac{6,67 \cdot 10^{-11} \times (5,98 \cdot 10^{24})^2}{83 \times (356375 \cdot 10^3)^2} \Rightarrow F_1 = 2,26 \cdot 10^{20} \text{ N}$$

: d=d<sub>1</sub> -

$$F_2 = \frac{6,67 \cdot 10^{-11} \times (5,98 \cdot 10^{24})^2}{83 \times (406720 \cdot 10^3)^2} \Rightarrow F_2 = 1,73 \cdot 10^{20} \text{ N}$$

: d=d<sub>2</sub> -

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