Answer on Question \#76297 Physics / Other
Two spheres sl objects have masses of $m_{1}=1.5 \times 10^{5} \mathrm{~kg}$ and $m_{2}=8.5 \times 10^{2} \mathrm{~kg}$. Their centers are separated by a distance of $r=2500 \mathrm{~m}$. Find the gravitational attraction between them.

## Solution:

The gravitation force

$$
\begin{gathered}
F=G \frac{m_{1} m_{2}}{r^{2}} \\
F=6.67 \times 10^{-11} \frac{1.5 \times 10^{5} \times 8.5 \times 10^{2}}{2500^{2}}=1.36068 \times 10^{-9} \mathrm{~N}
\end{gathered}
$$

Answers: $1.36068 \times 10^{-9} \mathrm{~N}$
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