## Answer on Question \#82788 - Math - Algebra

## Question

Asteroid 951 Gaspra has a mass of about $2,5 \cdot 10^{16} \mathrm{~kg}$. Asteroid 2685 Masursky hasa mass of about $9 \cdot 10^{15} \mathrm{~kg}$. What is the difference in the mass of the two asteroids?

## Solution

The difference of the mass of these asteroids we obtained from subtraction between a heavier asteroid and a lighter:

$$
\begin{gathered}
2.5 \cdot 10^{16} \mathrm{~kg}-9 \cdot 10^{15} \mathrm{~kg}=2.5 \cdot 10^{16} \mathrm{~kg}-0.9 \cdot 10^{16} \mathrm{~kg}=(2.5-0.9) \cdot 10^{16} \mathrm{~kg}= \\
=1.6 \cdot 10^{16} \mathrm{~kg}
\end{gathered}
$$

Answer: $1.6 \cdot 10^{16} \mathrm{~kg}$.

