Universal Law of Gravitation

Any two objects with mass are going to feel a gravitational attraction to each other. The force that they will feel is given by Newton's Universal Law of Gravitation.



Homework

The objective of this week's homework is for you to remember how to work with numbers in the scientific notation, as we will be using them a lot in the next few classes.

Problem 1. Carry out the following operations and express the result in scientific notation:

$$(3.1 \times 10^2 kg \frac{m}{s^2}) \times (8.7 \times 10^3 s) =$$

$$(8 \times 10^3 J) \times (2.2 \times 10^{-2} s) =$$

 $\frac{5.4 \times 10^3 \ m}{2.2 \ \times 10^2 \ s} =$

 $\frac{1.5 \times 10^5 N}{5.1 \times 10^{-5} kg} =$