Physical Constants and Characteristics

Gravitational constant:	$G = 6.673 \times 10^{-11}\ m^3\ kg^{-1}\ s^{-2}$
Stefan-Boltzmann constant:	$\sigma = 5.67 \times 10^{-8}\ W\ m^{-2}\ K^{-4}$
GM Sun:	$\mu_{Sun} = 1.327 \times 10^{20}\ m^3\ s^{-2}$
GM Earth:	$\mu_{Earth} = 3.986 \times 10^{14}\ m^3\ s^{-2}$
GM Moon:	$\mu_{Moon} = 4.903 \times 10^{12}\ m^3\ s^{-2}$
GM Mercury:	$\mu_{Mercury} = 2.094 \times 10^{13}\ m^3\ s^{-2}$
GM Venus :	$\mu_{Venus} = 3.249 \times 10^{14}\ m^3\ s^{-2}$
GM Mars :	$\mu_{Mars} = 4.269 \times 10^{13}\ m^3\ s^{-2}$
GM Jupiter :	$\mu_{Jupiter} = 1.267 \times 10^{17}\ m^3\ s^{-2}$
Solar Constant:	$S = 1.367 \times 10^{3}\ W\ m^{-2}$ at 1 AU
Sun radius (equatorial) :	$R_{Sun} = 6.955 \times 10^{8}\ m$
Astronomical Unit:	$1\ AU = 1.496 \times 10^{11}\ m$
Earth mass:	$M_{Earth} = 5.973 \times 10^{24}\ kg$
Earth radius (equatorial):	$R_{Earth} = 6.378 \times 10^{6}\ m$
Earth's gravitational acceleration:	$g = 9.80665\ m\ s^{-2}$
Sidereal day:	23h 56min 04.09 sec
Moon mass:	$M_{Moon} = 7.348 \times 10^{22}\ kg$
Moon radius:	$R_{Moon} = 1.738 \times 10^{6}\ m$
Moon's mean distance from Earth:	$d_{Moon} = 3.844 \times 10^{8}\ m$
Mercury's mean distance from Sun:	$D_{Mercury} = 0.387$ AU
Venus' mean distance from Sun :	$D_{Venus} = 0.723$ AU
Mars' mean distance from Sun:	$D_{Mars} = 1.524$ AU
Jupiters' mean distance from Sun:	$D_{Jupiter} = 5.204$ AU