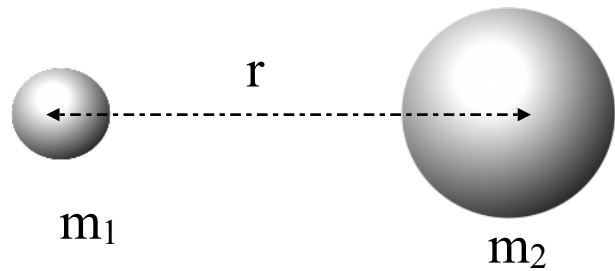




In the 17th century Sir Isaac Newton discovered the **Universal Law of Gravitation**. He observed the motion of planets along with the observations of Johannes Kepler.

Newton's Law of Gravitation describes the force of attraction between any two objects in the universe.

The Force of attraction Between the two masses:



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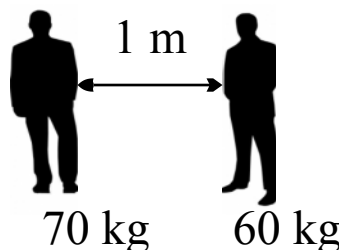
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Is the Gravitation force big?

Calculate the gravitational force of attraction between two people standing 1 m apart and having the masses shown.



Comments

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Gravitational force between two massive bodies

Earth and Moon



Mass of Earth = 6.0×10^{24} kg

Earth Moon distance = 3.8×10^8 m



Mass of Moon = 7.3×10^{22} kg

Gravitational Field Lines

