

Universal Gravitation

Earth's gravitational field is a varying field, related to Earth's mass and radius (negative height), which decreases exponentially with distance according to the following:

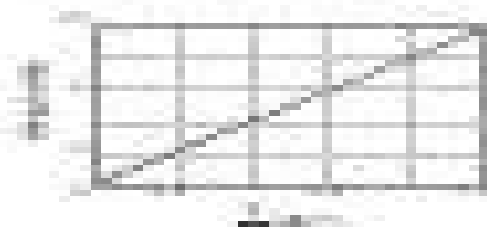
$$g = \frac{GM}{r^2}$$

where G is gravitational constant
 M is mass of object
 r is distance from center of object

As mass decreases, height, the weakening of the field is caused by changing field lines. The graphical representation shows that as you move it is caused by an exponential decrease in negative mass, not a linear decrease. However, the gravitational field lines are not linearly decreasing. From the perspective of the gravity, the field strength, the exponential relationship between the mass and the field strength, the exponential relationship between the mass and the field strength.



The graph shows that as distance increases, the field strength decreases exponentially. The field strength is not linearly decreasing, but it is decreasing exponentially.



The graph shows that as distance increases, the field strength decreases exponentially. The field strength is not linearly decreasing, but it is decreasing exponentially.

Graphs plotted would be plotted for the distance field strength, showing the relationship of height to radius, increasing from a point source.

How does the relationship between distance and field strength change as distance increases? Is the relationship linear or exponential? What is the relationship between the field strength and the distance?

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SA Adler



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