

A formal derivation of the proportionality, $\frac{\partial \mathcal{R}(m_r)}{\partial m} \times \frac{1}{m_r}$, for "large objects". objects".

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From the property of $P_{\mathcal{A}}(M,r)$, Limit $P_{\mathcal{A}}(M,r) \rightarrow I$, we define "large objects" as those where $P_{A}(M,r)$ \approx 1. For these objects the modified

Newton's law for gravitation,
$$\{2P_A(M,r)-1\}$$
 equation #1 becomes, $F(M,r) = GM/2 + GM/2 = G$

Taking equation # 1 we have,

$$\frac{\partial F(M, Y)}{\partial M} = G \frac{M}{Y^{2}} \left\{ 2 \frac{\partial F_{A}(M, Y)}{\partial m} \right\} + \frac{G}{Y^{2}} \left\{ 2 \frac{\partial F_{A}(M, Y)}{\partial m} \right\} + \frac{F(M, Y)}{M}$$

$$= G \frac{M}{Y^{2}} \left\{ 2 \frac{\partial F_{A}(M, Y)}{\partial m} \right\} + \frac{F(M, Y)}{M}$$

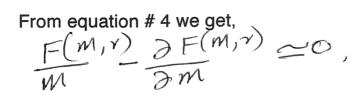
$$\Rightarrow -\frac{\partial F_{A}(M, Y)}{\partial M} = \frac{Y^{2}}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{F(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{G(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{G(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{G(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{G(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{G(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{G(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{G(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{G(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{G(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{G(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{G(M, Y)}{M} - \frac{\partial F(M, Y)}{\partial M} \right\} = \frac{2}{2GM} \left\{ \frac{G(M,$$

From equation # 2 we get,

or
$$\frac{\partial F(m,r)}{\partial m} \simeq \frac{G}{\sqrt{r^2}}$$

$$\frac{\partial F(m,r)}{\partial m} \simeq \frac{F(m,r)}{m} = \frac{equation}{m} #4$$





which leads to
$$F(M,Y) = E_M$$
 equation #5

where $\ensuremath{\mathcal{C}}$ is an extremely small quantity, i.e $\ensuremath{\mathcal{C}} \cong \ensuremath{\mathcal{O}}$.

Substituting equation # 5 into equation # 3, we get

$$-\frac{\partial P_{A}(M,x)}{\partial m} = \frac{\gamma^{2} e}{2G m^{2}}$$

This leads to our proportionality $-\frac{\partial P_{A}(M,r)}{\partial m}$ \mathcal{A} for "large objects" and the implications discussed in the implications discussed in the implications of the implications objects " and the implications discussed in the " An addendum to the theory " On the consequences of a probabilistic space-time continuum" paper". Additionally, we can also conclude from this proportionality that the larger the mass 'M' of an object, the slower is the rate of decline of # Pa (M,r).

