

This is a document  
designed for a phone.

$$F = G \frac{mM}{R^2}$$

$$R^2 \cdot F = \frac{GmM R^2}{R^2}$$

$$R^2 \cdot F = \frac{GmM \cancel{R^2}}{R^2}$$

$$\frac{R^2 \cdot F}{mM} = \frac{GmM}{mM}$$

$$\frac{R^2 \cdot F}{mM} = G \frac{\cancel{mM}}{\cancel{mM}}$$

$$G = \frac{R^2 F}{mM}$$