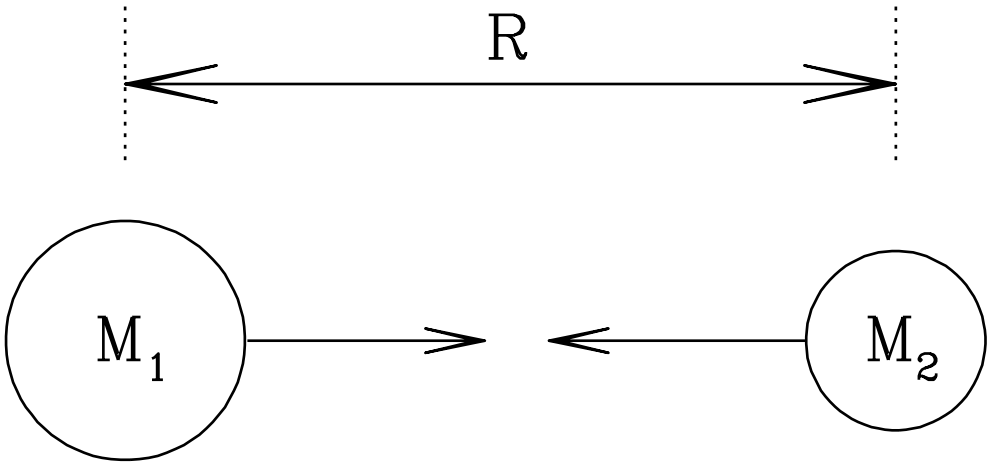

$$F_{\text{gravity}} = GM_1M_2/R^2$$