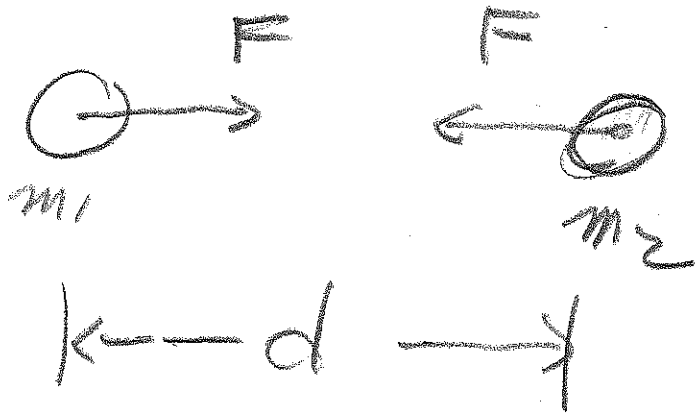


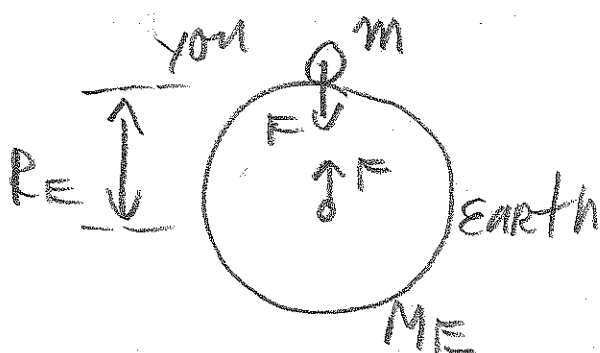
CH 9 GRAVITY



$$F = \frac{G m_1 m_2}{d^2}$$

$$G = 6.67 \times 10^{-11} \frac{\text{Nm}^2}{\text{kg}^2}$$

your weight unveiled to give $g = 9.8 \frac{\text{m}}{\text{s}^2}$

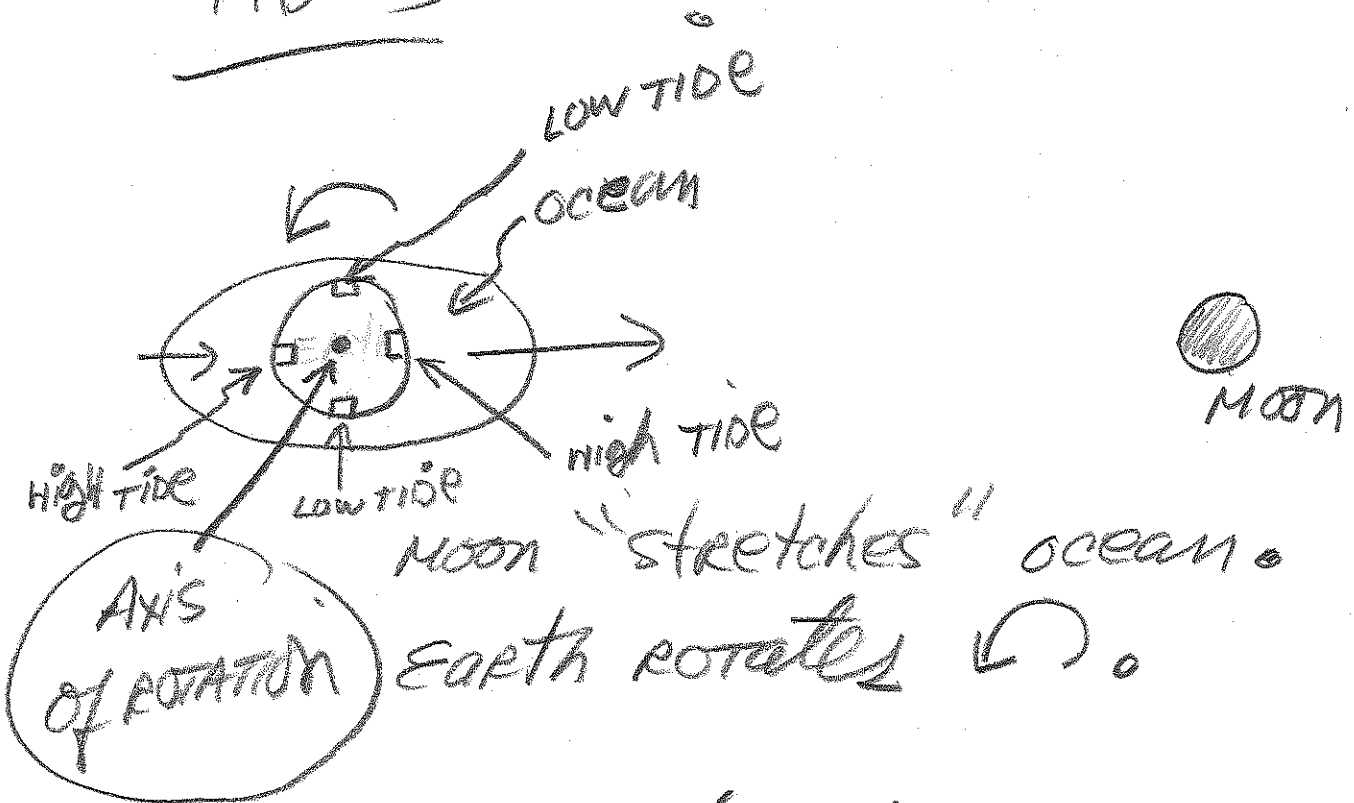


$$F = mg$$
$$\frac{G m M_E}{R_E^2} = mg \Rightarrow$$

$$g = \frac{G M_E}{R_E^2}$$
$$g = 9.8 \frac{\text{m}}{\text{s}^2}$$

TIDES

(2)



1 ROTATION / 24 HOURS

LOW TIDES SEPARATED BY 12 HOURS.

High " " " 12 HOURS.