hajia faiial Assignment Physics ICS-B (602) The velocity of satellite orbitling around very done to earth: V = VRg = N6-9 X10 x9-8 = 7.9×103mi = 7.9 Kms mgh = 1 my 2 + 1 Iw2 Q:1) mgh= Lmv'+LmR(x)2 mgh = 1 mv2 + 1 mv2,
mgh = mv2 U2= 10gh v= 10gh S = 2.50m V=3.8×10%

6:1)
$$R = 1.74 \times 10^6 \text{m}$$

 $r = 3.85 \times 10^3 \text{m}$

0.3 N-mg-ma N-mg-mg N-2mg The person's weight becomes 2W. A G:5) 6.67×10-11 × 5.972×10 3 1-01×103) 3 = 42, 164Km = 4a164 - 6378 = 35786 km height v= aitr 2x3.14 x 370,400 = 7,926,883-9sec = 38.1days