



Question # 03



when elevator is an rest its acceleration is Zero. and weight of pressonis 0=0

F = W-T

F = ma

ma = W-T

0 = W - T

O+T=W

[T=W]

when elevator acclaration up word weigh of p350n is 2W

F = T-ZW

8 ma = T-2W

2W+ma=T

2W+(some value) - T

2W >T

Question #05

8 = [GMT2]/3

taking ± 3 on both Sides

83 = [GMT27/3×9

33 - GMIZ

82.2 = GMTZ

472 = GM

taking sque root on both side



27.8 = JGM T Question # OS

 $G_1 - 6.673 \times 10^{11} \text{Nm}^2/\text{kg}^2$ $M = 6 \times 10^{24} \text{kg}$ $\overline{x} = 3.14$ $T = 24 \times 3600 = 864005$

 $Y = \left[\frac{GMT^2}{4\pi^2}\right]^{\frac{1}{3}}$ $= \left[\frac{6.673 \times 10^{-3} \times 10^{-$

7 = 42.3 × 10.m

b= 42.3 x106-6.4 x106

 $= 3.5.9 \times 10^{6}$ $= 3.59 \times 10^{6+1}$ $= 3.59 \times 10^{7}$

Question #02

Critical velocity is that velocity which is neguined to also body move in orbital path. it is nepersented by