0)

Knowns

V = = 0 m/5

VF = 7700 m/S

t = 11min = 660s

Q = ?

VF=V: + at

7700=0+0 (660)

 $\frac{7700 = 6600}{660} = \frac{1}{660}$

11.67=0

0 = 11.67 m/52

is the rocket must have on accelleration of 11.67 m/s² to ottain orbit around the earth 6) M=3.05×105 kg 0=11.67m/52 Fg=Ma Fg = 3.05 × 105 (-9.8) Fg=305,000(-9,8) Fg=-2,98,9000N Fg=2,989,000N[D] EF= MQ FT-Fg=ma F--2,989,000=305,000(11.67) F--2,949,000=3,55,9,350 FT = 3,559,350+2,989,000 F - = 6,548,350N F_=6,548,350N [up] F_=6.5×10 N [up]