



(5) a) F=m, a = D F=m, dr + mg-Krs=m, dr + + mg = m. do + kre + g = dr + b = 0 = 0 9 = do \$ fdo= fgdt \$ 20=9t+C \$ 20=9t b)  $\frac{dx}{dt} = gt$   $\Rightarrow \int dx = \int gt \cdot dt$   $\Rightarrow x = gt^2 + C$ XHF 9t2 V(0) =0 / C) 30 = 98. 2 +0 60 = 982 + 2= 6,122 t = 247 Segindes