Thermal Systems HW 3 1 ) a) M= 750 Kg & Neglecting all resistance and any.
a=10m/s of other Priction on the car causin an acceleration against the velocity of the cal F= ma > F= 750 kg (100) = [7500 N 6) P= W = F.d = (10KN) (50 Meters) = [500 KW] c)  $E = W = F \cdot \lambda = (10 \text{ kN})(100,000 \text{ m}) = 1,000,000 \text{ KJ}$  E = P + = 500 kW(60.60) = (1.867)2 / a) 10 m³ of air to cm³ 1 m3 = 100 cm = 100 cm = 1,000,000 cm3 b) fair = M = 12 Kg = 11. 2 Kg

10m3 = 1. 2 m3