



3) a) Fc = FLSin(8) b) Fc = MV2 , 6000 (166.67)2 , 4166.67m)
Fc = 80,000 Sin(30) F 40,000 C) C= 2TTr = TT (4166.67) ≈ 13,094.4m t= = 13,094.4 & 78.57 seconds 4) if TATE b) Frotal=3KDX C) K-200 (the mass would barely more mg = 3KDX lim DX = lim ma = 0

AX = mg

K-200 3K

La  $V_{t} = \frac{2mg}{c_{9}A}$   $V_{t} = \frac{2mg}{c_{9}A}$   $V_{t} = \frac{2 \cdot 60 \cdot 9 \cdot 81}{0.5 \cdot 1.2 \cdot 0.23} = \frac{58 \cdot 6m's}{15}$   $V_{t} = \frac{2 \cdot 60 \cdot 9 \cdot 81}{0.5 \cdot 1.2 \cdot 23} = \frac{58 \cdot 6m's}{15}$   $V_{t} = \frac{1177.2}{15} = \frac{58.48}{15} \approx \frac{8.86 \cdot 8}{15}$ 5) V= [2mg/CAA 6) AL= 10000·10 b) V= 22.5 × 10 N /m2 0.0314.45.109 ALE 100000 = 7.08×10-5m DL= 10000 x(0 DL'= 100000 0.0314 × 22.5 × 109 .707 × 109 DL= 1.41 ×10-4