NW # 2 Truck - by m bullet large & P= mv 89 2) FE = IMPULO = AP = MAV FE = MAV $F = \frac{m V f - M V c}{t}$ $W = \frac{1250 \text{ kg}}{V c}$ $V = \frac{1.65 \text{ m/s}}{V f}$ V = 0150 F = 426,000 N $t = \frac{m(vf - u_1)}{c} = (7250kg)(0 - 1.65 m/s)$ 426,000 3) Fe = MAV = AP XV = 7.65 m/s Ft = (7250) kg (7.15 m/s) = 55462.5 kg m/s $t = \frac{5540.5}{1000} \text{ kg m/s} = 0.1305$ 4 26 600 Kg m/ 3) which speed = 86.6 km/h = 86.6 km $\frac{36005}{h}$ loom $\frac{3}{3}$ km/h = 86.6 km $\frac{36005}{h}$ loom AP = AMV = 24.611 m/s AP=MAN AV= 24.611 m/5 AM = (66.4 1/2) 24.611 m/5 = 1,683 kg m/5 DMONICO = (34.2 kg) (24.611 m/s) = 441.69 kg m/s b) Ft = DP Adult (1663) | 0.5645 = 12,984.042 Kg m/52 child (641.69) 0.2605 = 3,037 kg m/50 = 3037 N

HW & (cont)

Jepp m = 1720 kg volks wison m = 1510 kg 4) Backwords - 75.7 km/h East 15.5 Km/n wast (75.7 km) (1k) (1000 m) = 21.03 m/s = Vunkunjer -> EAST Final uplocity (-15.5 km) (1h) (1000 m) = -4.31 m/s < 4.31 m/s west m, v, + m, v, = (m, m,) V= (m, v, V, = (MVM) VF - (MVVA) V) = (1510 + 1720) (-4.31 m/s) - (1510) (2103) 1720 Kg = (3240)(-4.31) - (31,745.3)= -13964.4 - 31 755.3 = -45,719.7 1720 1720 = -26.5917 m/g = (-26.58) m/3 3600g 1 km = -95.69

