A(8,0,0) B(0,3,8) C(0,n,-6) D(0,-4,0) 3.67 F = 2i(Kip) en A YA0 = -8i + 3j + 8K

IVAB = 11.704

CAB = -0.683i+ 0.256j+ 0.683K

Vac = -8: +2; -6h Vac = 10.198 Cac = -0.784i +0.196; -0.588K

VAD = -8: -4; +0K VAD = 8.944 CAD = -0.894; -0.447;

 $F_{x=0} = -0.683i|TAB| - 0.784i|TAC| - 0.894i|TAD| = -2000|b|$ $F_{y=0} = 0.256|TAB| + 0.196|TAC| - 0.447|TAD| = 0$ $F_{z=0} = 0.683|TAB| - 0.588|TAC| + 0|TAD| = 0$

TAB = 780.944 16F TAC = 907.118 16F TAD = 845.004 16F

$$A(0,8,0)$$
 $B(10,0,16)$ $C(10,0,-12)$ $D(-16,0,4)$
 $m_g = 882.9$ N $E = 40$ N

Fx=0 = 0.666 | TAB | + 0.569 | TAC | - 0.872 | TAD | = 0 Fy=0 = -0.333 | TAB | - 0.455 | TAC | - 0.436 | TAD | = -117.1 Fz=0 = 0.666 | TAB | - 0.683 | TAC | + 0.218 | TAD | = 0

3.79 A(0,10,

A(0,10,0) B(-4,0,6) C(8,0,6) D(0,0,-8) W = 20,000 lb

YAB = -4: -10; +6K

IVAB = 12.328

CAB = -0.3841 - 0.811; + 0.486K

VAC = 8: -10; +6K

VAC = 14.142

CAC = 0.565; -0.707; +0.4246

VAD= 01-10; -8K

CAD = 0. 10: - 0.778 - 0.622 K

FX = 0 = - 0.324/TABI + 0.565/TACI + 0/TABI = 6

Fy=0= -0.811 | TABI - 0.707 | TACI - 0.778 | TADI = -20,000 16

F2 = 0 = 0.486 | TAB | + 0.424 | TAC | - 0.622 | TAD | = 0

TAB = 9396 16 = 9390 16

TAC = 5388 16 = 539016/

TAD= 11,01516 = 10,98016/