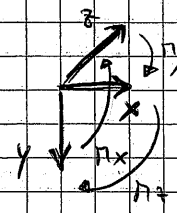
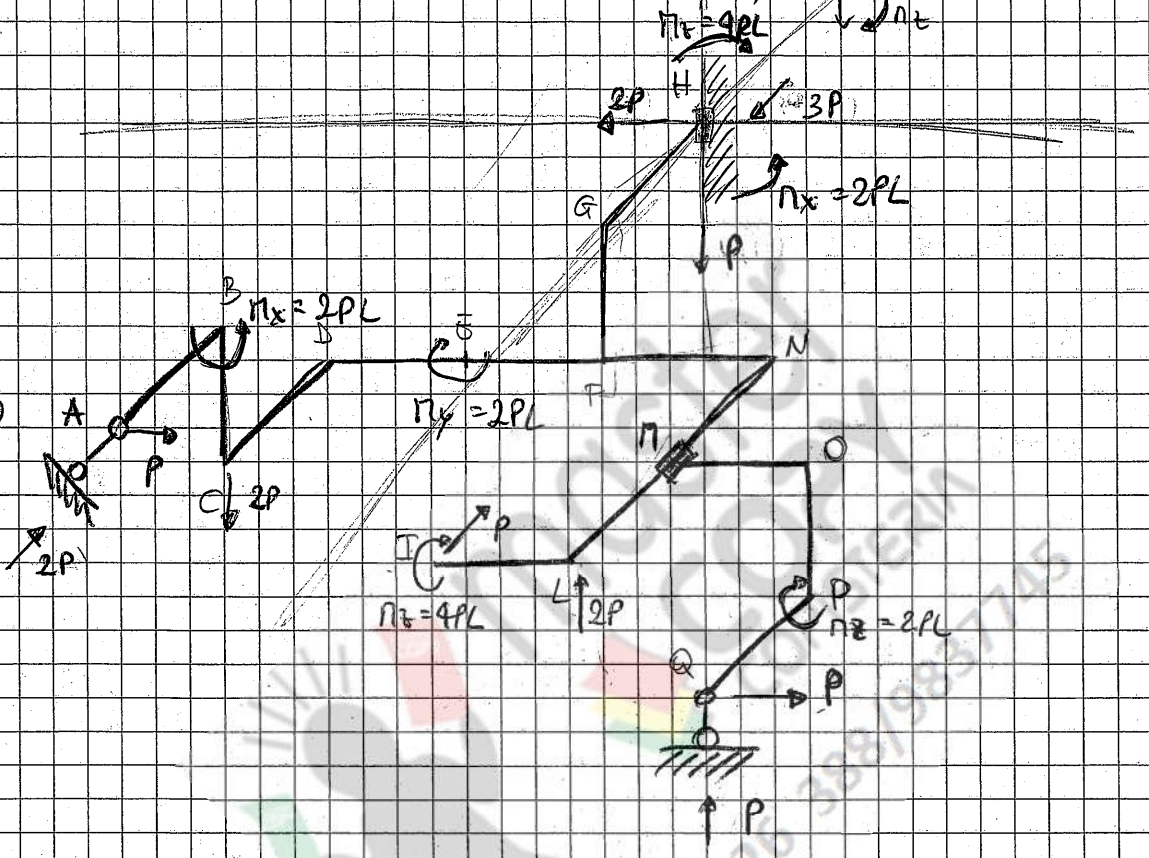
9 GENNAIO 2015



$P = 10\ kN$
$L = 2m$

$M_x > 0$ $y \to z$
$M_y > 0$ $z \to x$
$M_z > 0$ $x \to y$



EQ. alla ROTAZ. intorno a z in M (xy)

$y(Q)\,L + PL + 2PL = 0$ (Q) − (Mz)

$\boxed{y(Q) = -P}$

EQ alla ROTAZ. intorno a y in H (xz)

$z(A)\,2L + 2PL - P3L - P3L + P0 = 0$ (My) (A) (Q) (I)

$\boxed{z(A) = 2P}$

EQ. alla TRASL. secondo x

$x(H) + P + P = 0$

$\boxed{x(H) = -2P}$

EQ alla TRASL. secondo y

$y(H) + 2P - 2P - P = 0$

$\boxed{y(H) = P}$

EQ alla TRASL. secondo z

$z(H) + P + 2P = 0$

$\boxed{z(H) = -3P}$

MASTER COPY
Tel. 050 8312126
Cell. 338 9837745

EQ. alle ROTAZ. intorno a z in H (xy)

$M_z(H) + 4PL + 2PL - P0 - P2L - 2P2L - 2PL - P2L = 0$ $\quad M_z(H) = 4PL$

(Mz) (Mz) (A) (Q) (C) (L) (Q)

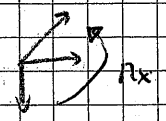
EQ. alle ROTAZ. intorno a x in H (zy)

$M_x(H) + 2PL + 2P0 + PL - P3L - 2P3L + 2P2L = 0$ $\quad M_x(H) = 2PL$

(Mx) (A) (I) (Q) (L) (C)

master copy
CORISTEIN
050/8312126 388/9837745
MASTER COPY
Tel. 050 8312126
Cell. 388 9837745

M_x — yz



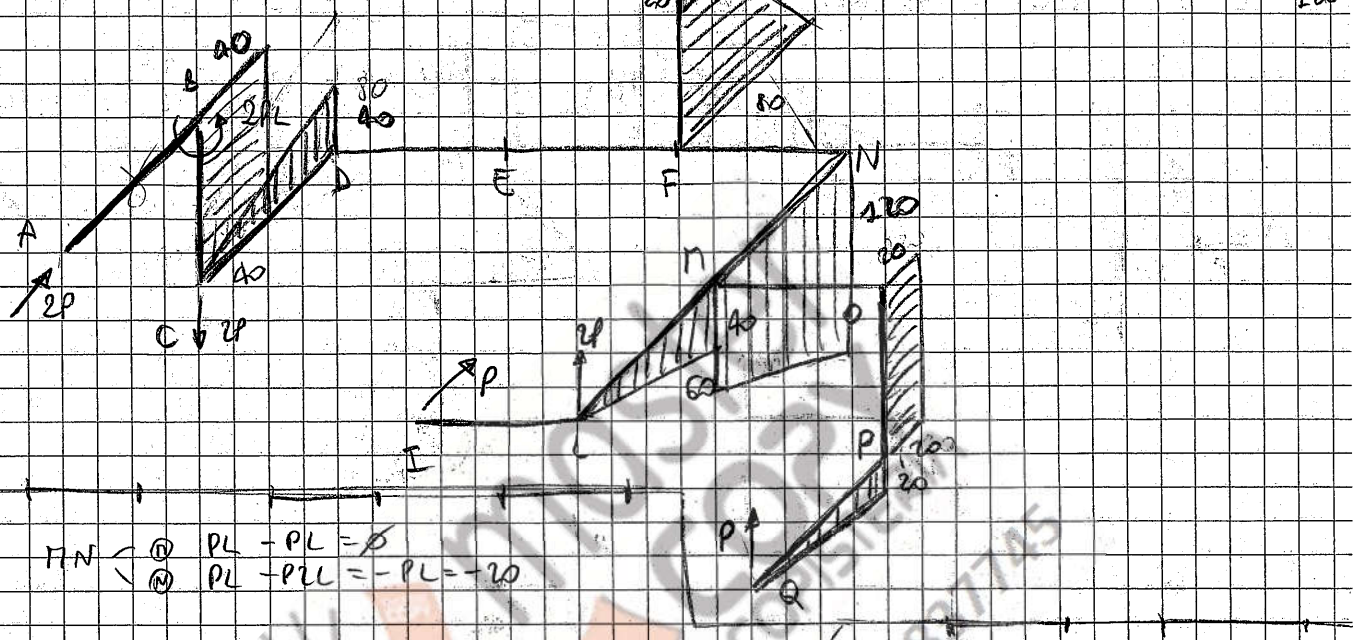
FG ⟨ (G) $2PL - PL = PL = 20$
(E) $2PL + PL + 3PL = 4PL = 80$

BC ⟨ (B) $2PL = 40$
(C) $2L = 40$

HG ⟨ (H) $2PL = 40$
(G) $2PL - PL = PL = 20$

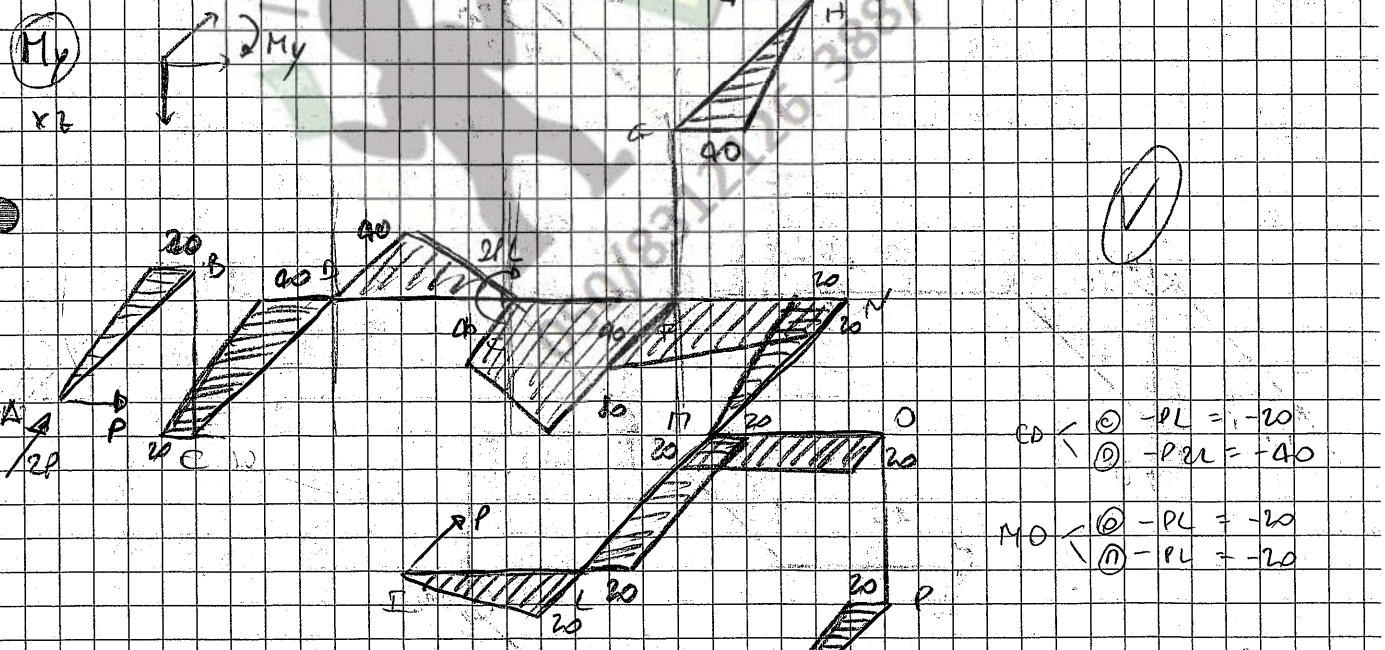
CD ⟨ (C) $2PL - 2PL = 0$
(D) $2PL + 2PL - 2PL = 2PL = 40$

MN ⟨ (M) $-2PL - PL = -3PL = -60$
(N) $-2P2L - P2L = -6PL = -120$



MN ⟨ (O) $PL - PL = 0$
(M) $PL - P2L = -PL = -20$

M_y — xz



CD ⟨ (C) $-PL = -20$
(D) $-P2L = -40$

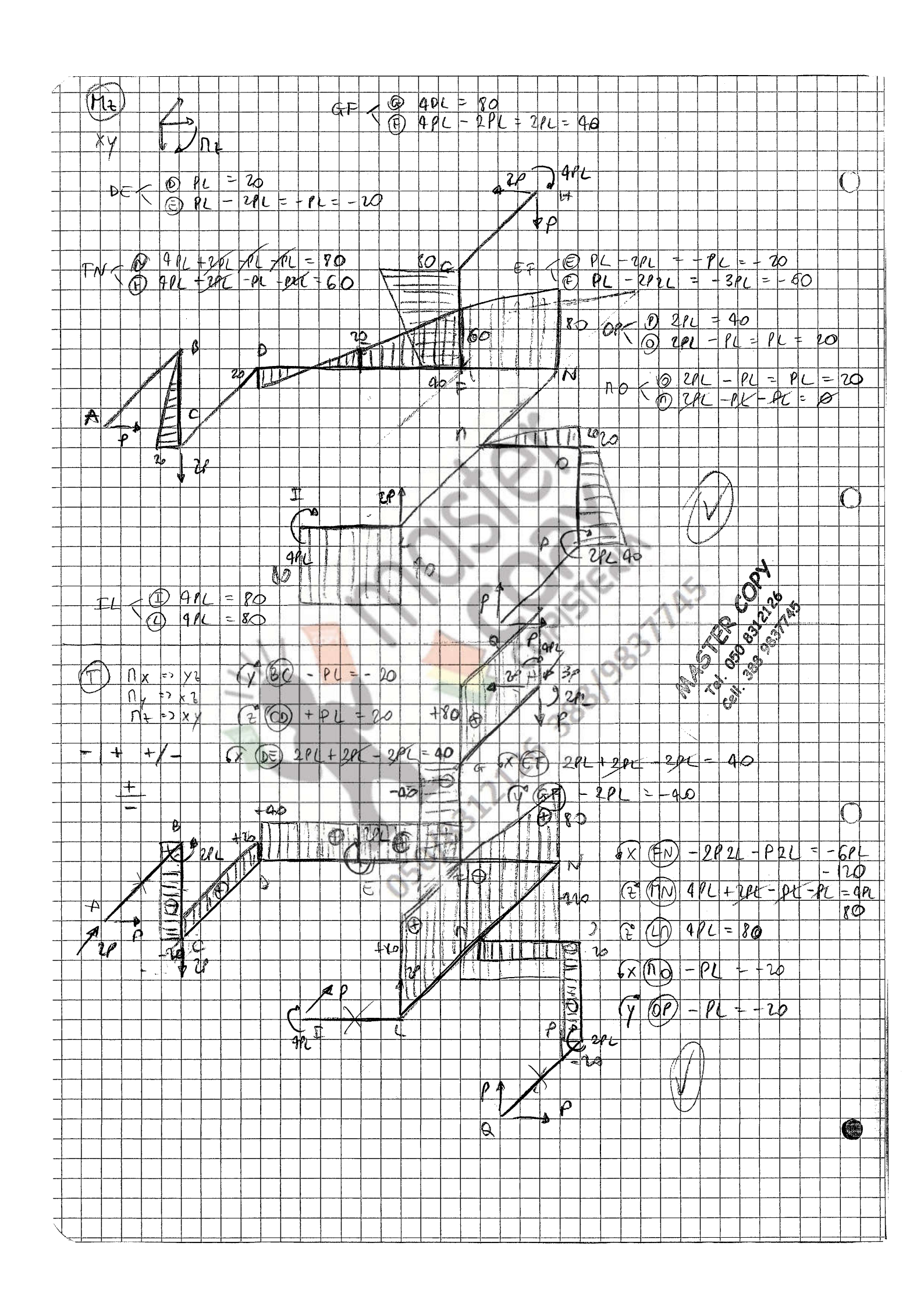
MO ⟨ (O) $-PL = -20$
(M) $-PL = -20$

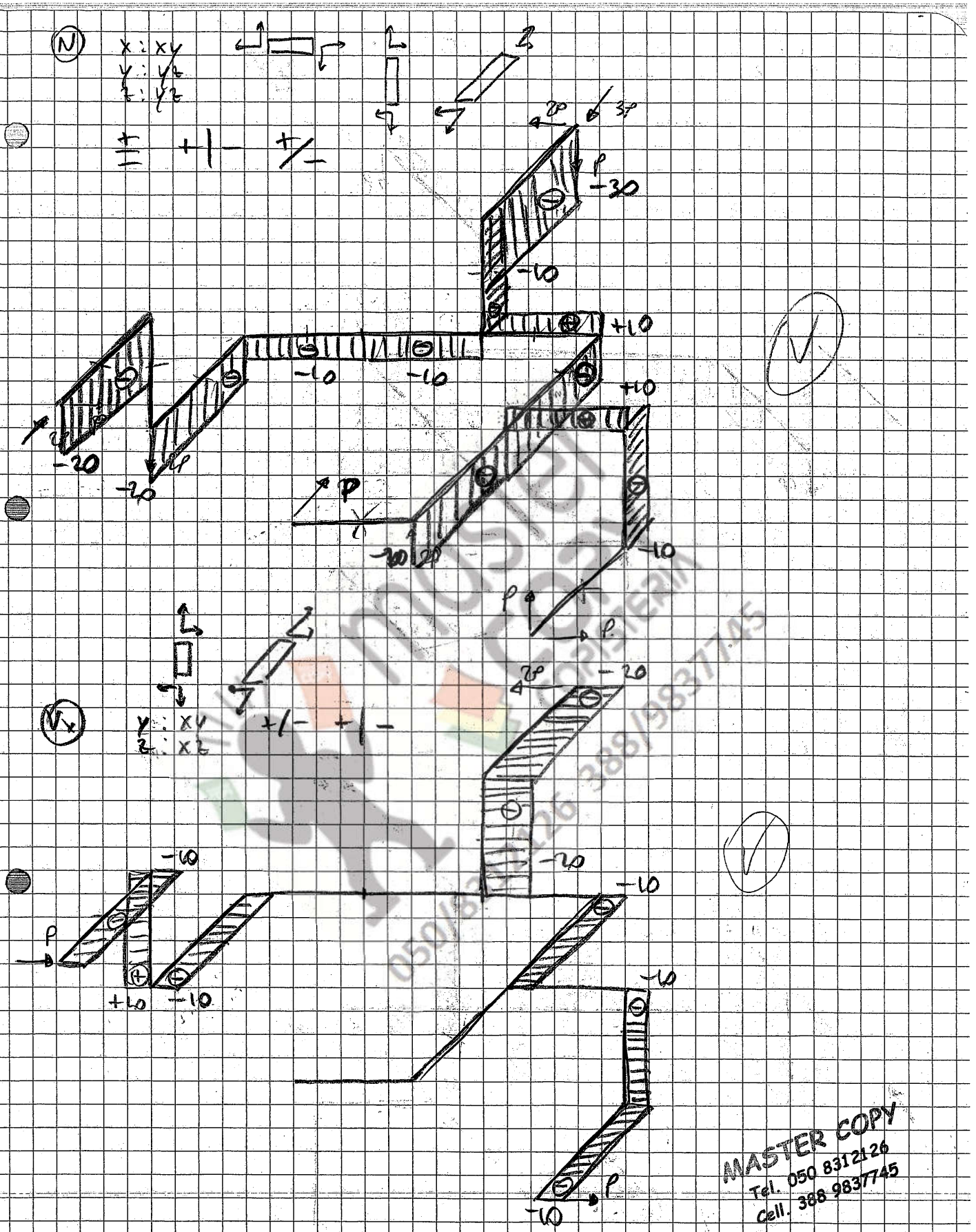
FN ⟨ (N) $-P2L + PL = -PL = -20$
(F) $-P2L + PO = -40$

EF ⟨ (E) $2PL - P2L + 2P2L = 80$
(F) $2PL - P2L + 2PL = 40$

DE ⟨ (E) $-P2L + 2PL = 0$
(D) $-P2L = -40$

MASTER COPY
Tel. 050 8312126
Cell. 388 9837745


Mz
xy
Mz
GF ⟨ G 4PL = 80
H 4PL − 2PL = 2PL = 40
DE ⟨ D PL = 20
E PL − 2PL = −PL = −20
FN ⟨ N 4PL + 2PL − PL − PL = 80
H 4PL + 2PL − PL − PL = 60
EF ⟨ E PL − 2PL = −PL = −20
F PL − 2PL = −3PL = −60
OP ⟨ O 2PL = 40
P 2PL − PL = PL = 20
NO ⟨ N 2PL − PL = PL = 20
O 2PL − PL − PL = 0
IL ⟨ I 4PL = 80
L 4PL = 80
T
Mx => yz
My => xz
Mz => xy
(y) BC −PL = −20
(z) CD +PL = 20
(x) DE 2PL + 2PL − 2PL = 40
(x) EF 2PL + 2PL − 2PL = 40
(y) GP −2PL = −40
(x) FN −2P2L − P2L = −6PL = −120
(z) MN 4PL + 2PL − PL − PL = 4PL = 80
(z) LM 4PL = 80
(x) NO −PL = −20
(y) OP −PL = −20
MASTER COPY
Tel. 050 8312126
cell. 338 9937745



MASTER COPY
Tel. 050 8312126
Cell. 388 9837745