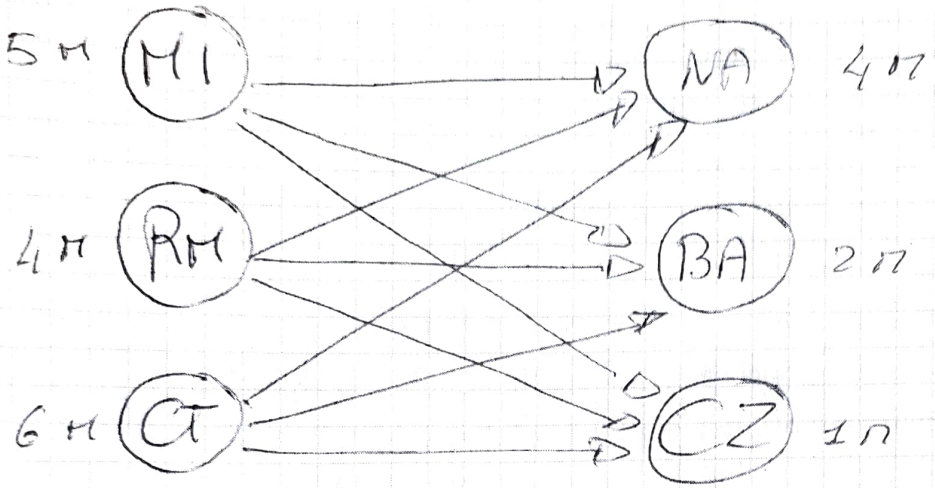
PROVA SCRITTA 16/6/14

PB. 27



DECISIONI

x_{ij} = QUANTITÀ TRASPORTATA DA $i \in j$

$i = MI, RM, CT$ $\quad j = NA, BA, CZ$

y_k = MAGAZZINO NODO k, $k = MI, RM, CT, NA, BA, CZ$

FUNZ. OBIETTIVO

c_{ij} = COSTI TRASPORTO

c_k = COSTI MAGAZZINO

$\min Z$

$$Z = \sum_i \sum_j c_{ij} x_{ij} + \sum_k c_k y_k$$

VINCOLI

DEPOSITI MAGAZZINO

$x_{MINA} + x_{MIBA} + x_{MICZ} + y_{MI} \leq 5$ MILIONI

$x_{RMNA} + x_{RMBA} + x_{RMCZ} + y_{RM} \leq 4$ MILIONI

$x_{CTNA} + x_{CTBA} + x_{CTCZ} + y_{CT} \leq 6$ MILIONI

DEPOSITI LOCALI

$x_{MINA} + x_{RMNA} + x_{CTNA} \geq y_{NA} + 4$ MILIONI

$x_{MIBA} + x_{RMBA} + x_{CTBA} \geq y_{BA} + 2$ MILIONI

$x_{MICZ} + x_{RMCZ} + x_{CTCZ} \geq y_{CZ} + 1$ MILIONE

$x_{CTBA} = 0$

$x_{CTNA} \geq 600000$

$x_{RMNA} \geq 0.4 \left(x_{MINA} + x_{RMNA} + x_{CTNA} \right)$

INTERI

$x_{ij} \geq 0$

$y_k \geq 0$