QUESTION 29/11 SOLUTION (Cantele Alberto/Cancelliere Biagio)

We define the answer to this task down below:

$$min \sum_{j \in S} f_i y_i + \sum_{i \in C} \sum_{j \in S} c_{ij} + x_{ij}$$

$$\sum_{i \in S} x_{ij} \leq M y_j \qquad j \in S$$

$$\sum_{j \in S} x_{ij} = 1 \qquad i \in C$$

$$x_{ij} \leq y_i \qquad i \in C, j \in S$$

Each active facility must be assigned to each costumer

$$d_{ij} x_{ij} \leq d_{ih} y_h + D_{max}(1 - y_h) \qquad i \in C;\ j, h \in S$$