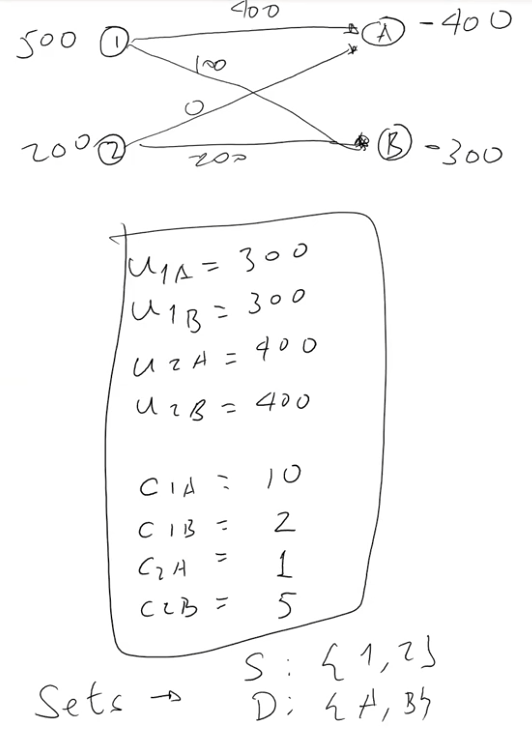
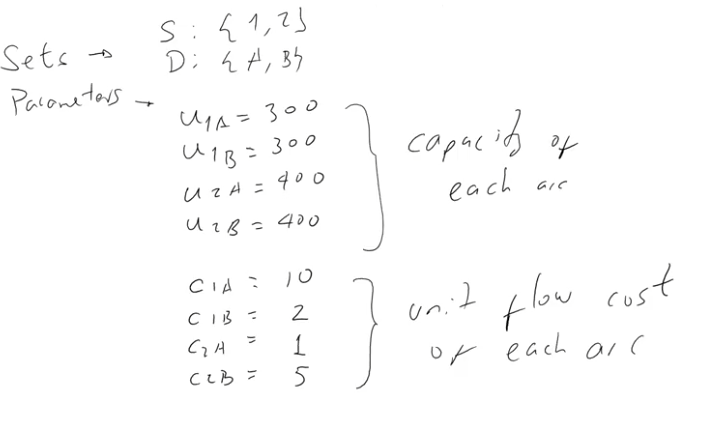
**SETUP FOR TRANSPORTATION PROBLEM**



**CAPACITY CONSTRANT (U)**



**COST (C)**

**(OF NODES)**



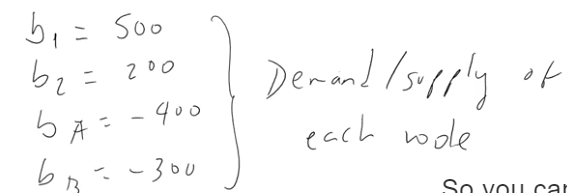
**FLOW OF GOODS**

**DEMAND**

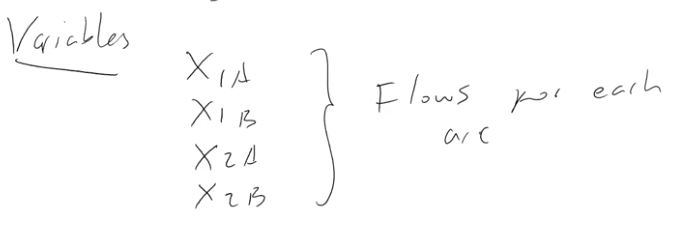
**SUPPLY**

***(Parameters Continued)***

**DEMAND / SUPPLY of each node**

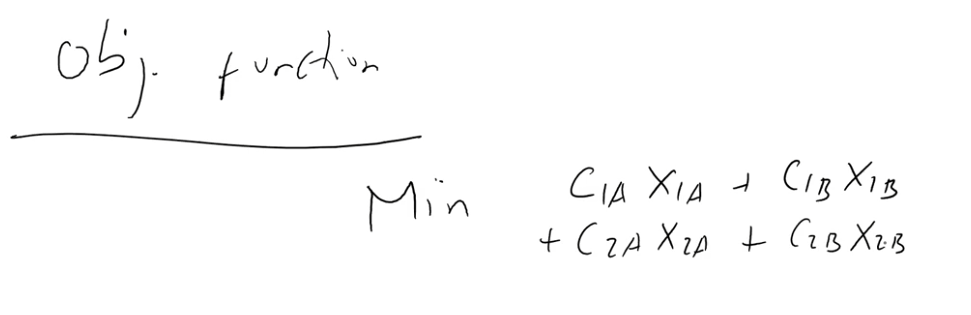
****

**VARIABLES**

****

**OBJECTIVE FUNCTION**

**Goal: minimize the cost of each arc**

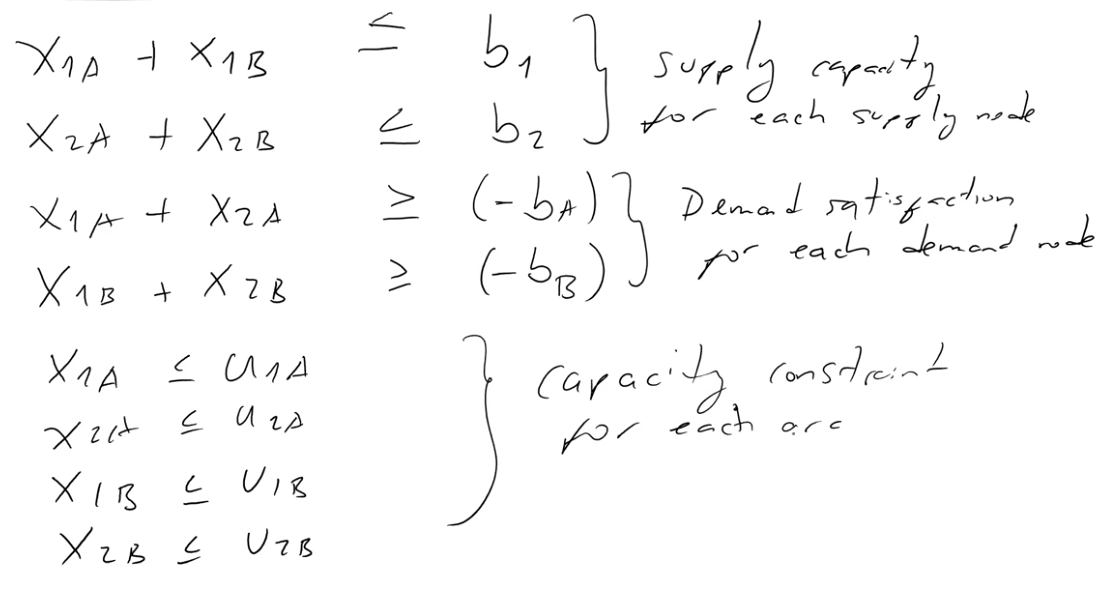
****



**COST (C)**

**FLOW OF ARC**

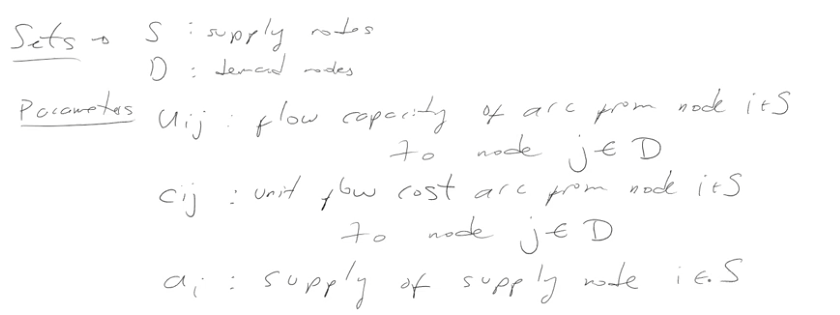
**CONSTRAINTS**

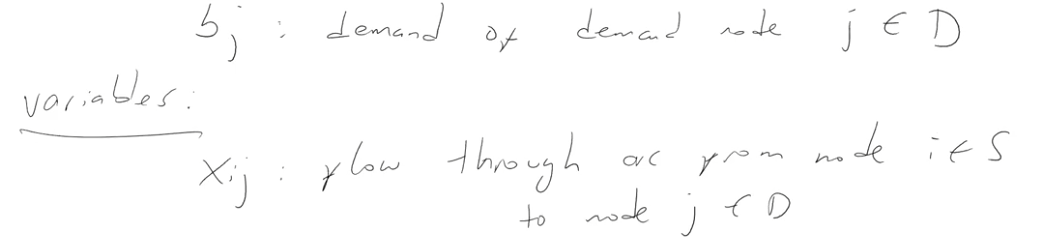
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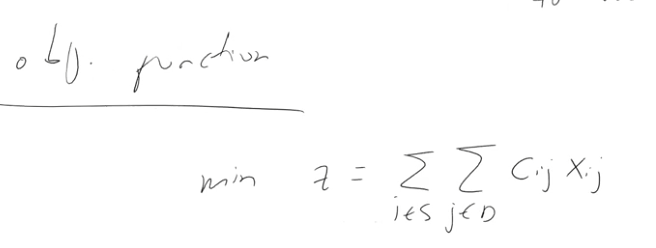


****

**SETUP FOR *>> GENERAL <<* TRANSPORTATION PROBLEM**

****

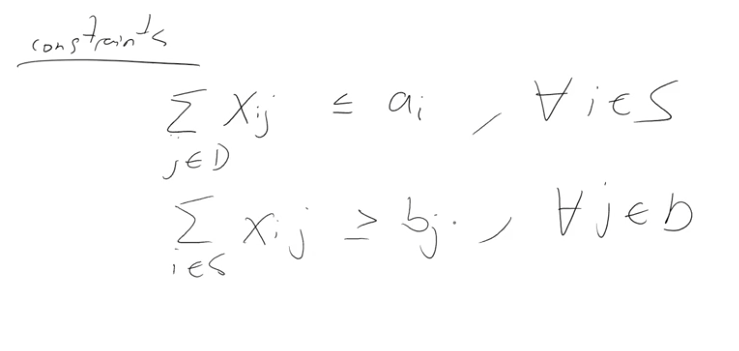
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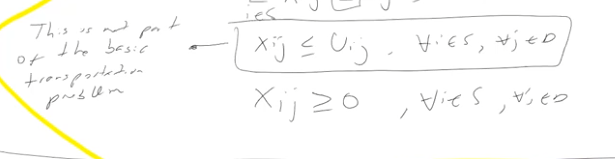
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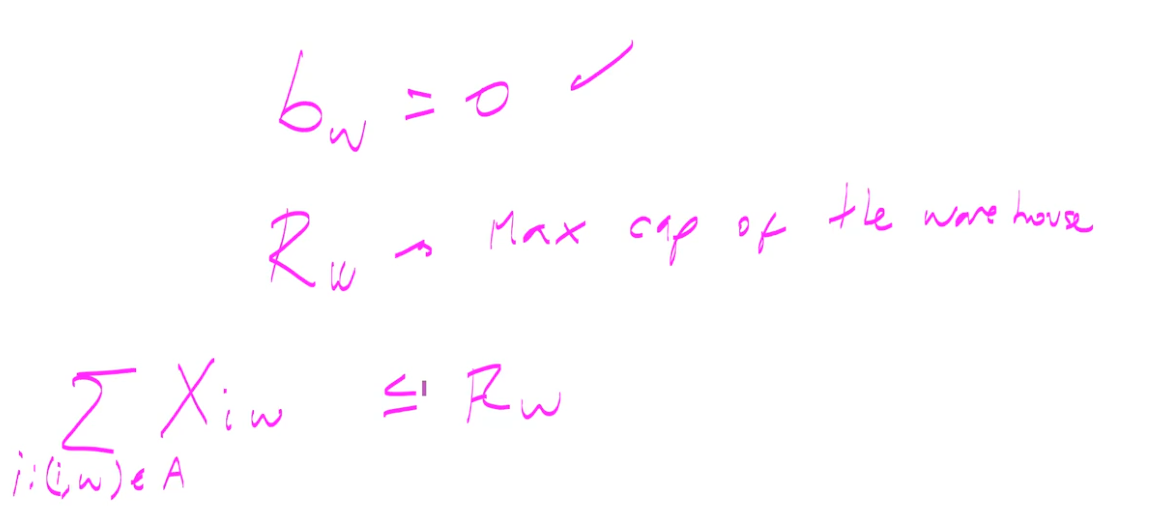
**COST (C)**

**FLOW OF ARC**

****

****

**SET MAX CAPACITY OF NODE**

****

**The number of units must be less than the capacity**

**Transshipment node = 0**

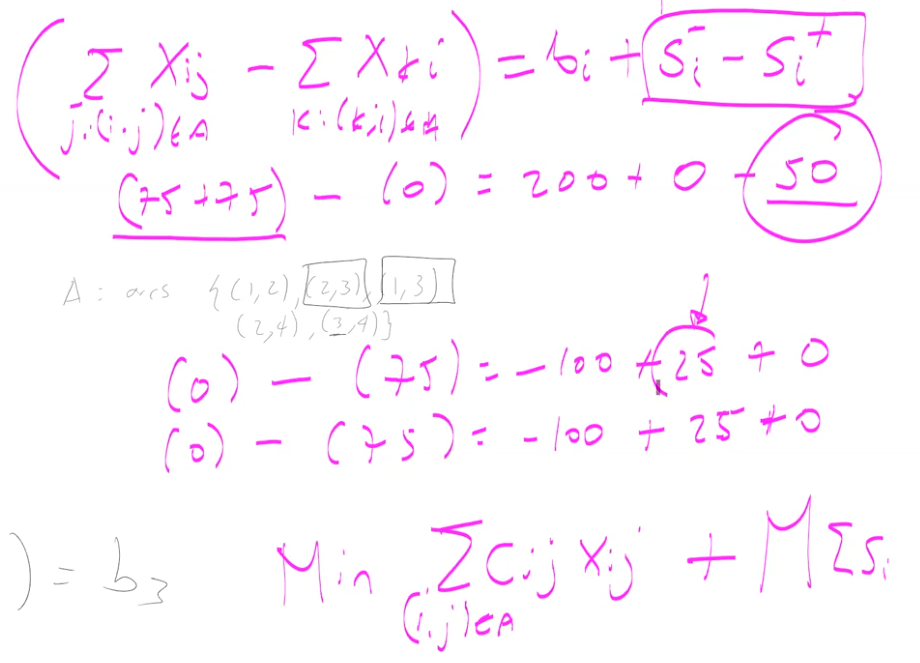
**Changing units in network problem**

Simply multiply the conversion unit by the number of units within ***Xi, j***

**Unmet Demand (Supply < Demand)**

* Add a slack variable (- for too little supply), (+ for too much supply)

**General setup for unmet demand or supply**



**Changes to the Objective (+ M ∑[Si]**