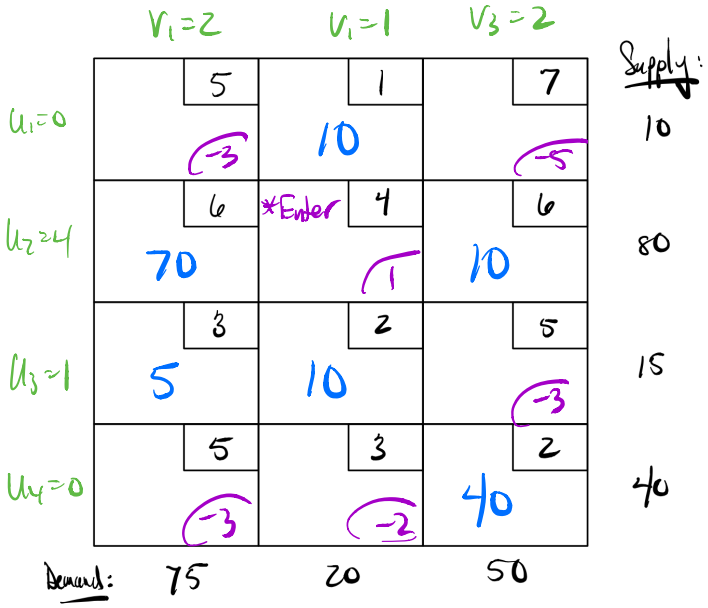
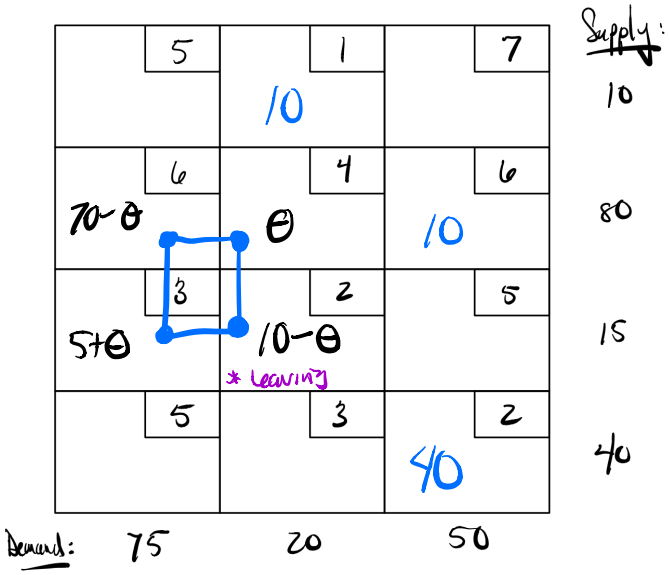
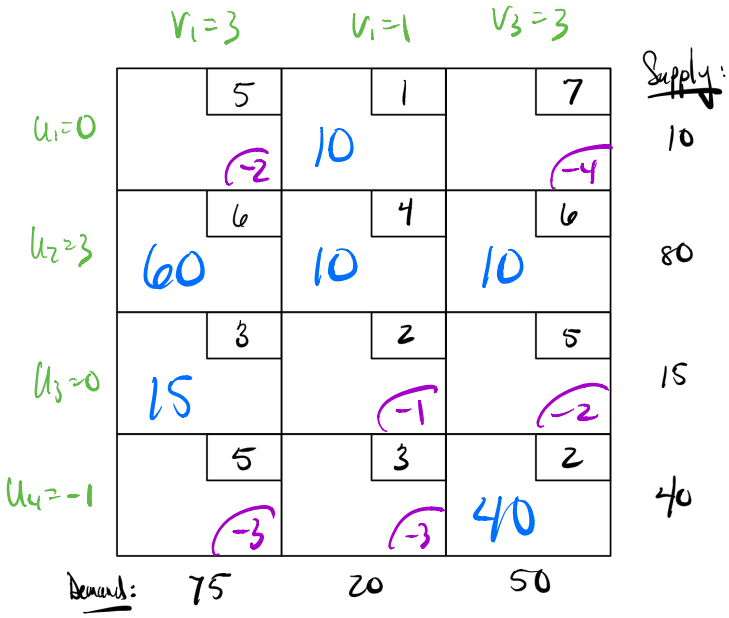
§7.3 (part 2): Transportation Simplex Method

1.] Solve the following Transportation LP using the Transportation Simplex Method. Use the minimum cost method to find an initial bfs.





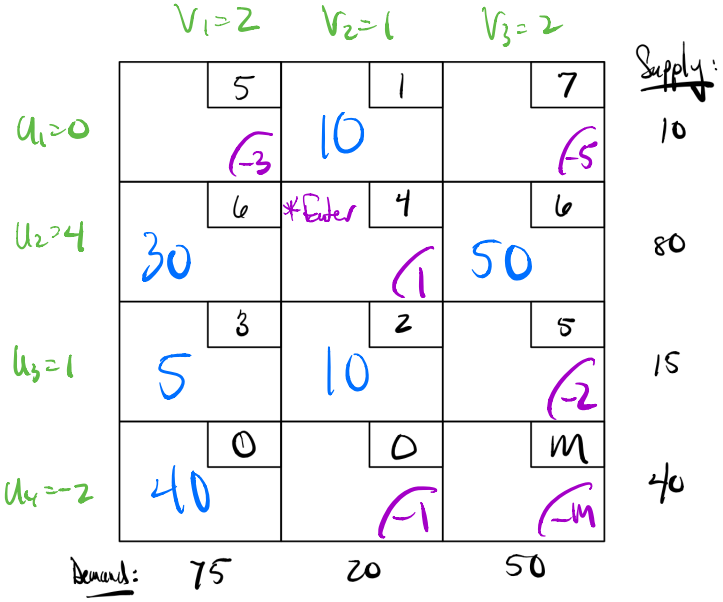


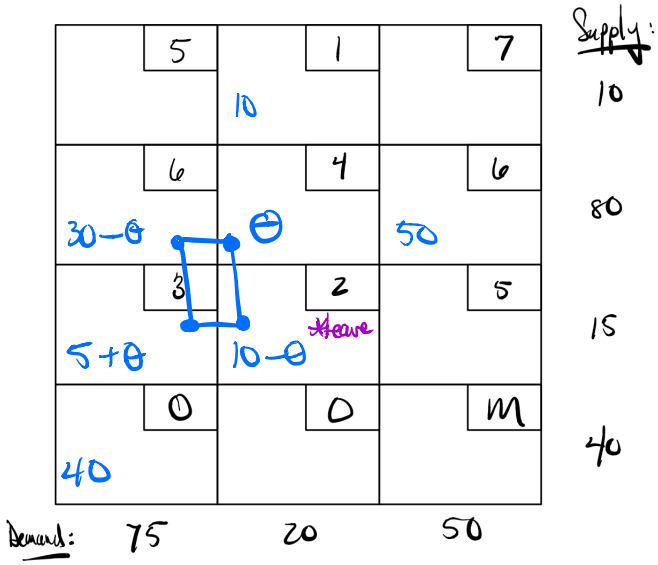
*optimal!

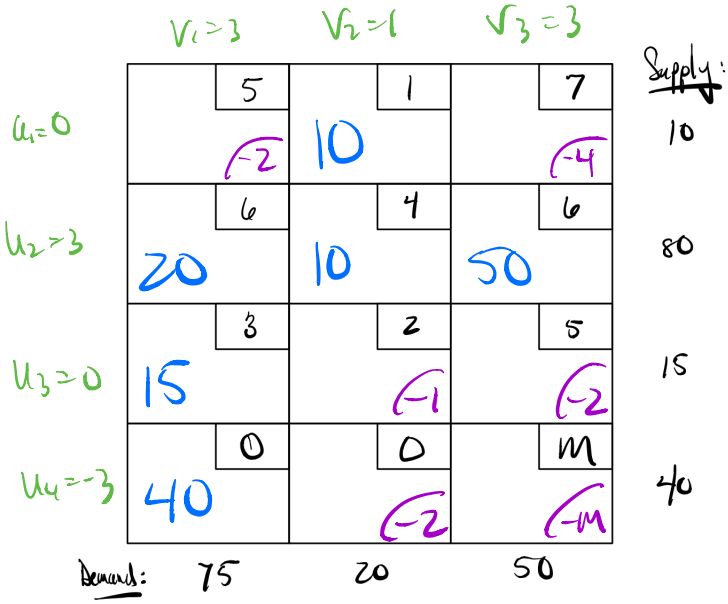
Solution: $x_{12}=10,\ x_{21}=60,\ x_{22}=10,$
$x_{23}=10,\ x_{31}=15,\ x_{34}=20$

Obj. Fun.: $z=595$

2.] Solve the following Transportation LP using the Transportation Simplex Method. Use the minimum cost method to find an initial bfs.







*Optimal

Solution: $x_{12}=10$, $x_{21}=20$, $x_{22}=10$, ...
$x_{23}=50$, $x_{31}=15$, $x_{41}=40$

Obj Fun: $Z = 515$