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| **Programming language** | **CPLEX** | **GUROBI** | **Linprog (Matlab)** |
| Python | pi = RMP.solution.get\_dual\_values () | pi = [c.Pi for c in RMP.getConstrs()] | -- |
| Matlab | pi = RMP.Solution.dual; | pi = RMP.Solution.Pi; | [˜,˜,˜,˜,lambda] = linprog (OF,A,B,Aeq,Beq,lb,ub);  pi = - lambda.ineqlin; and  sigma = - lambda.eqlin |
| Java | pi = RMP.getdual() | cons = RMP.getConstrs()  pi = cons.getAttr("Pi")) | -- |

pi – array with the dual variables

RMP – model that we are solving