

Problem3: Code is attached.

```

命令窗口
>> Problem3

Initial tableau:
    1      0      1      0      0      4
    0      1      0      1      0      6
    1      1      0      0      1      8
   -2     -5      0      0      0      0
Pivot point:
    2      2
New tableau:
    1      0      1      0      0      4
    0      1      0      1      0      6
    1      0      0     -1      1      2
   -2      0      0      5      0     30
Pivot point:
    3      1
New tableau:
    0      0      1      1     -1      2
    0      1      0      1      0      6
    1      0      0     -1      1      2
    0      0      0      3      2     34
>> disp(v');
    3      2      1
>> disp(x');
    2      6      2      0      0
fx >> |

```

As indicated above, the solution to the problem in standard form is $[2, 6, 2, 0, 0]^T$, and the objective function value is -34 . The optimal cost for the original maximization problem is 34.