```
>> % Example 5.6
>> prob=Ex_5_6;
>> % compute f^primal_3
>> RPMIOsolve_primal(prob,3);
the primal optimal value f^primal_k at order k=3 is 0.4504
the rank condition is satisfied at t=1 with rank being 2
the minimizer S^(k,*) admits a representing measure
there are 2 atoms in the extracted measure:
the 1-th atom is:
    0.8402
    0.5423

with the 1-th weight being
    0.2107   -0.2107
   -0.2107    0.2107

the 2-th atom is:
   -0.8402
   -0.5423

with the 2-th weight being
    0.2107    0.2107
    0.2107    0.2107

>> % compute f^dual_3
>> RPMIOsolve_dual(prob,3);

xx =

    0.2711    0.4201


rho =

    0.4504

the primal dual value f^dual_k at order k=3 is 0.4504
the rank condition is satisfied at t=3 with rank being 1
the minimizer s^(k,*) admits a representing measure
there are 1 atoms in the extracted measure:
the 1-th atom is:
    0.2711
    0.4201
```

```
with the 1-th weight being
    1.0000

>> % as we can see the flat extension condition (43) holds
>> % for both S^(3,*) and s^(s,*), the global optimality
>> % is numerically certified.
>> % the optimal value is 0.4504 and the global minimizer is
>> % (0.2711, 0.4201)
>>
```