```
resource A and B (labor and capital). Px = $50.
```

```
Qa MPa Qb MPb

1 12 1 20
2 11 2 18
3 10 3 16
4 9 4 14
5 8 5 12
6 6 6 6 10
7 5 7 8
8 3 8 6
```

PA= \$250 and PB= \$400.

Solution:

We can find maximized profit from the formula:

TP = TR - TC = Pa*q - (PA + PB) = max

Value of marginal products of labor and capital should be equal to their wages and rental rate respectively, so:

Px*MPa = PA, 50*MPa = 250, MPa = 5,

Px*MPb = PB, 50*MPb = 400, MPb = 8, so we can see from the table, that q = 7

Now we can calculate maximizing profit:

TP = 50*7 - (250 + 400) = -300 thousand dollars.

So, there is a loss, that is minimized.