

## Answer on Question 81930-Economics - Microeconomics

The production function is

$$Q = 20 K^{0.5} L^{0.5}$$

For the production function  $Q = 20 K^{0.5} L^{0.5}$  determine four combinations of capital and labor that will produce 100 and 200 units of output.

Plot these points on a graph and use them to sketch the 100- and 200-unit isoquants.

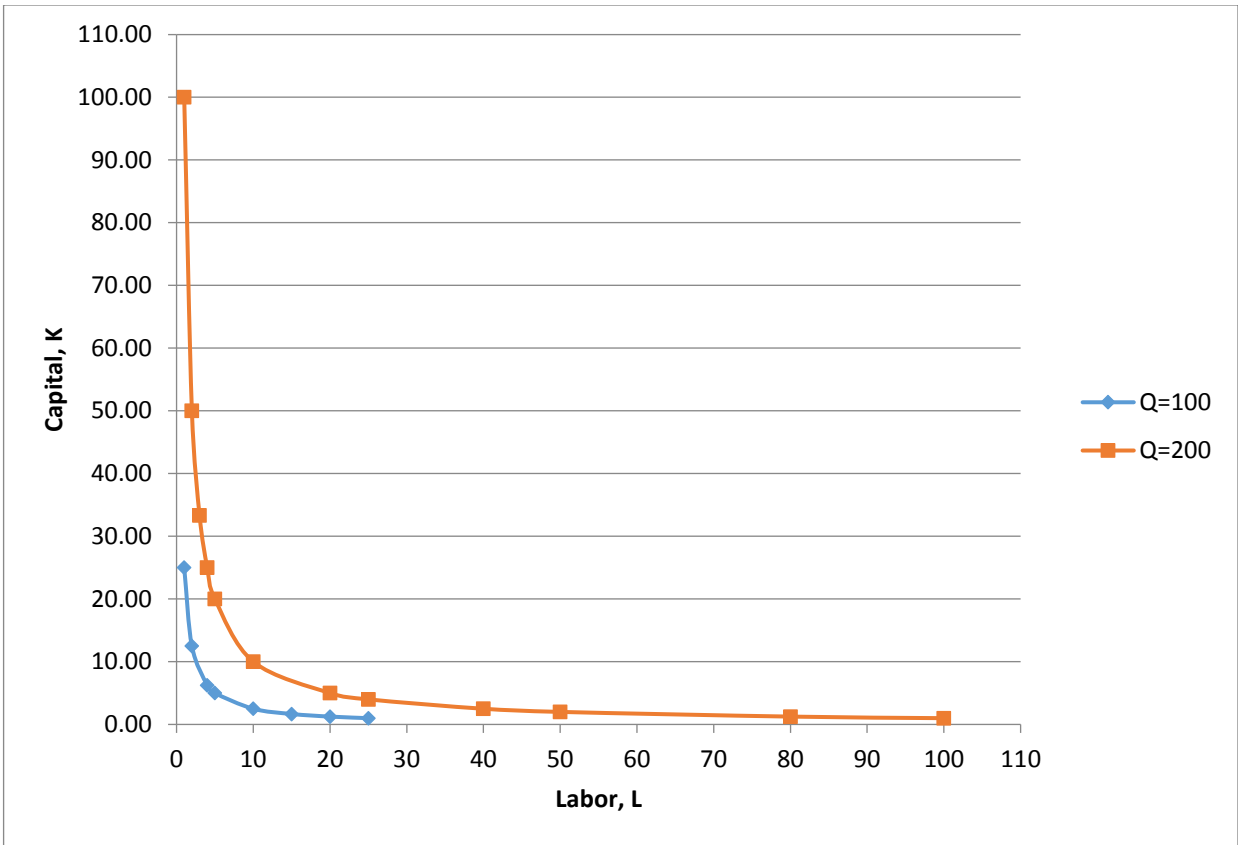
### Solution.

$$\text{For } 20 K^{0.5} L^{0.5} = 100$$

L	K
1	25,00
2	12,50
4	6,25
5	5,00
10	2,50
15	1,67
20	1,25
25	1,00

$$\text{For } 20 K^{0.5} L^{0.5} = 200$$

L	K
1	100,00
2	50,00
3	33,33
4	25,00
5	20,00
10	10,00
20	5,00
25	4,00
40	2,50
50	2,00
80	1,25
100	1,00



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