UNIVERSITÄT LEIPZIG

Institut für Informatik

Abt. Technische Informatik
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Seminar zum Fach Technische Informatik
1. Seminar

2. Semester / Sommersemester 1998

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1. Grundstromkreis

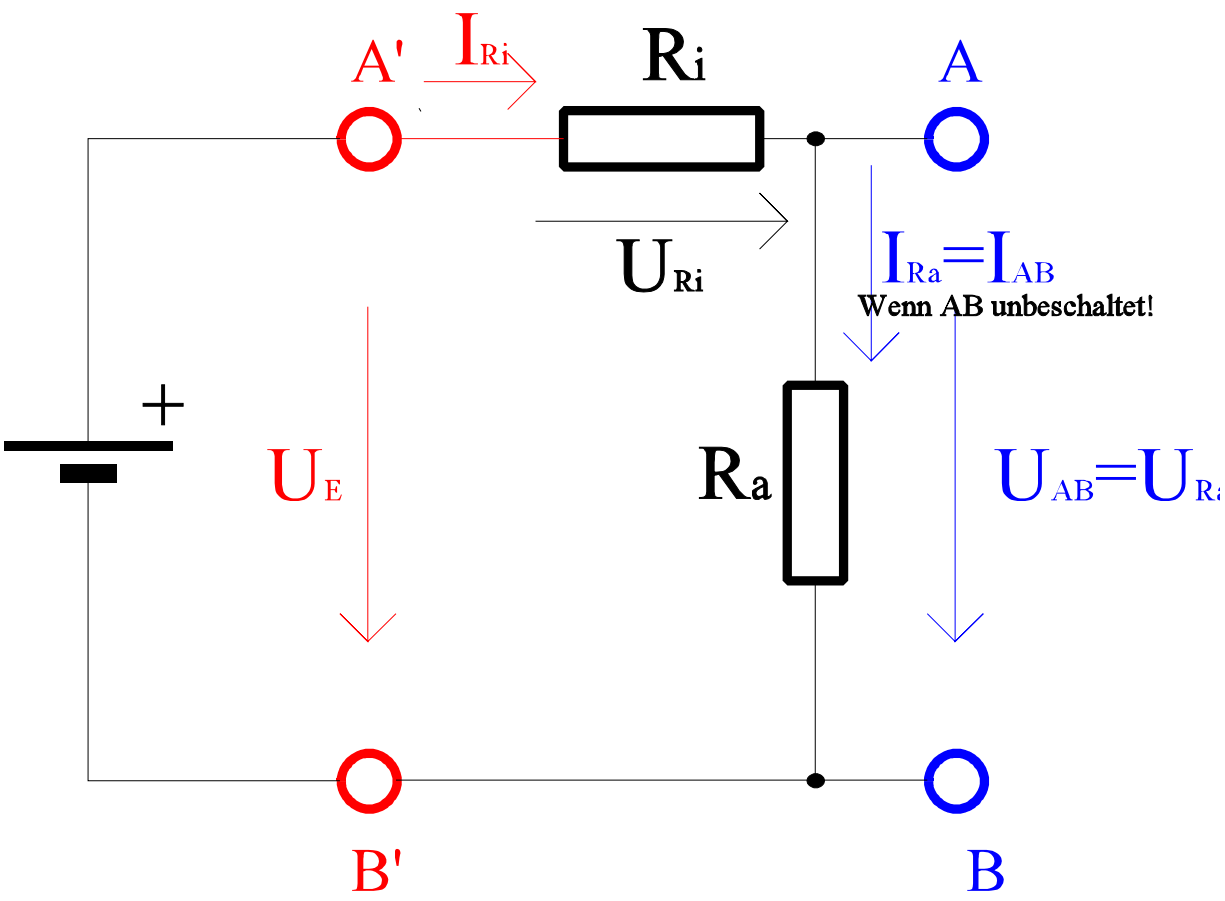

Abb. 1

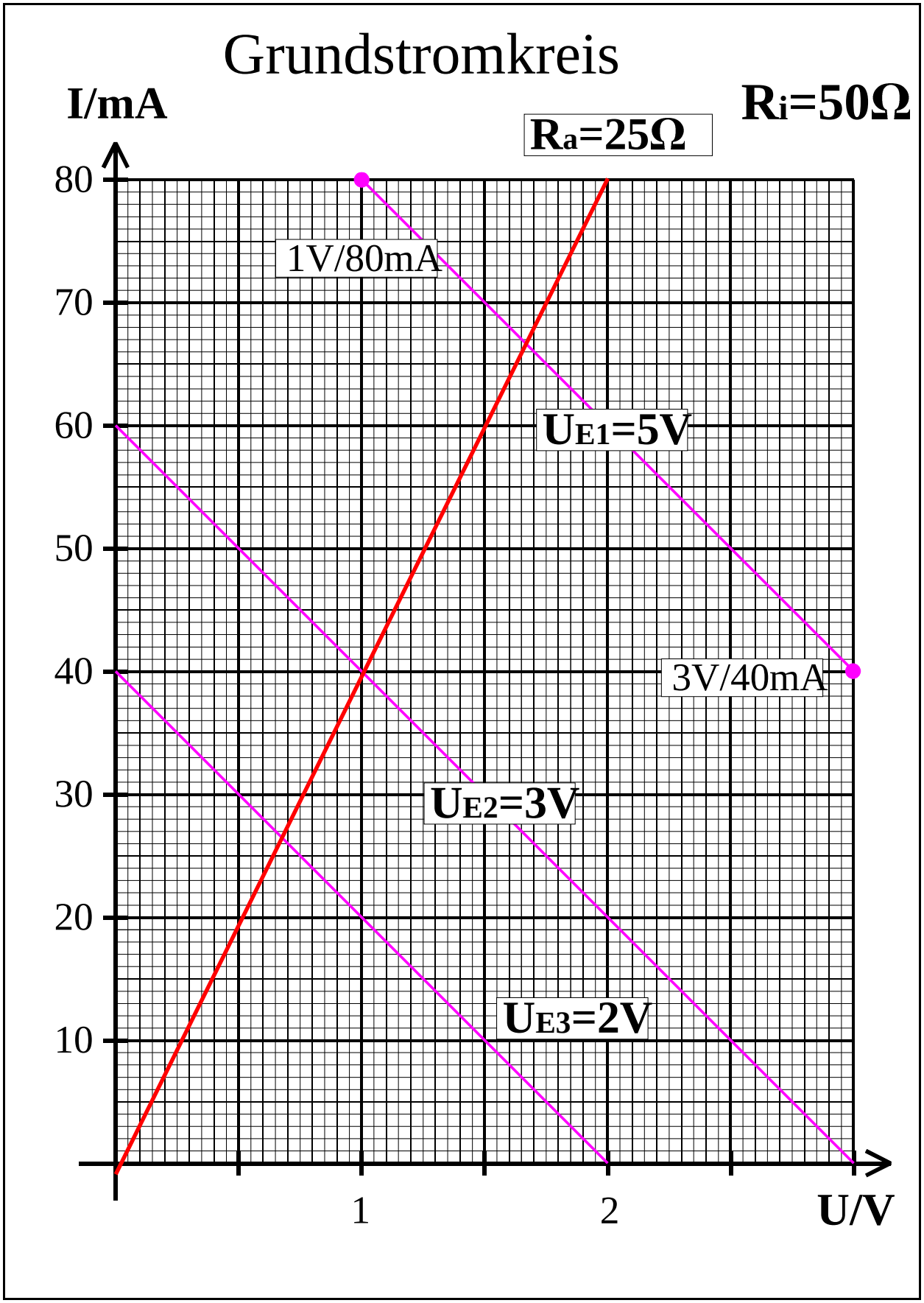
Grundstromkreis
I/mA
Ri=50Ω
Ra=25Ω
80
70
60
50
40
30
20
10
1V/80mA
UE1=5V
3V/40mA
UE2=3V
UE3=2V
1
2
U/V

Abb. 2

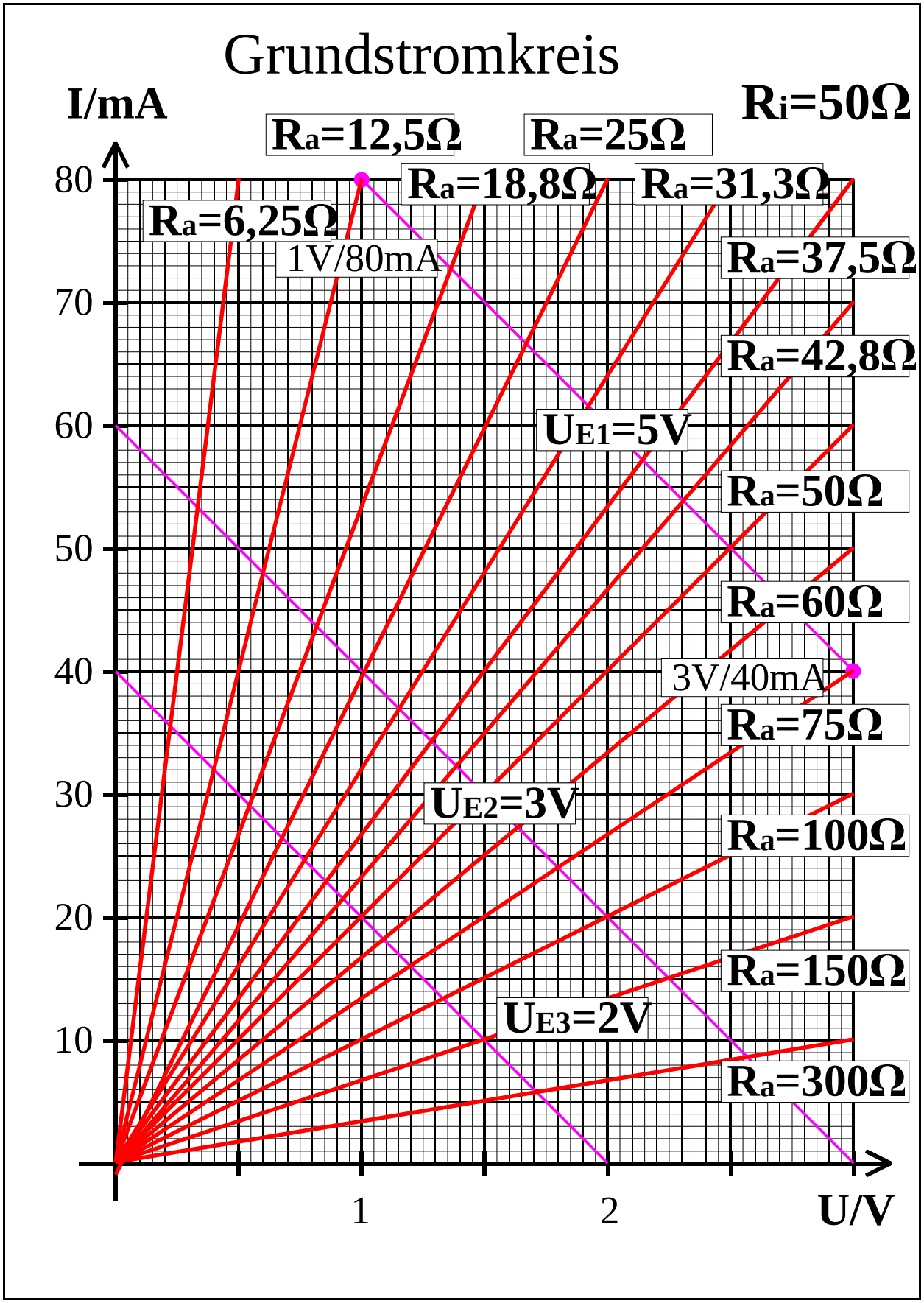
Grundstromkreis
I/mA
Ri=50Ω
Ra=12,5Ω
Ra=25Ω
Ra=18,8Ω
Ra=31,3Ω
Ra=6,25Ω
1V/80mA
Ra=37,5Ω
Ra=42,8Ω
UE1=5V
Ra=50Ω
Ra=60Ω
3V/40mA
Ra=75Ω
UE2=3V
Ra=100Ω
Ra=150Ω
UE3=2V
Ra=300Ω
80
70
60
50
40
30
20
10
1
2
U/V

Abb. 3

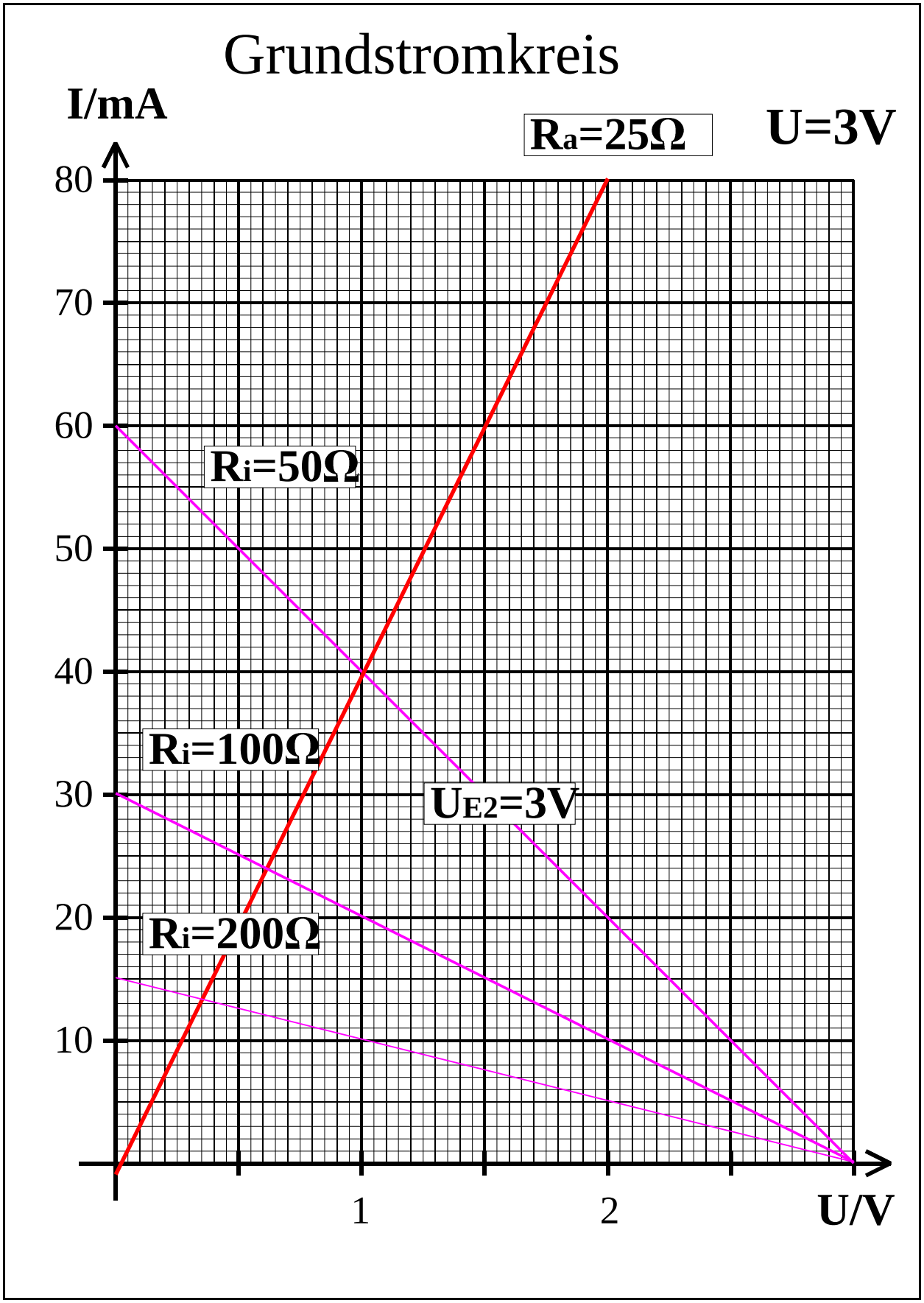
Grundstromkreis
I/mA
U=3V
Ra=25Ω
80
70
60
50
40
30
20
10
Ri=50Ω
Ri=100Ω
UE2=3V
Ri=200Ω
1
2
U/V

Abb. 4

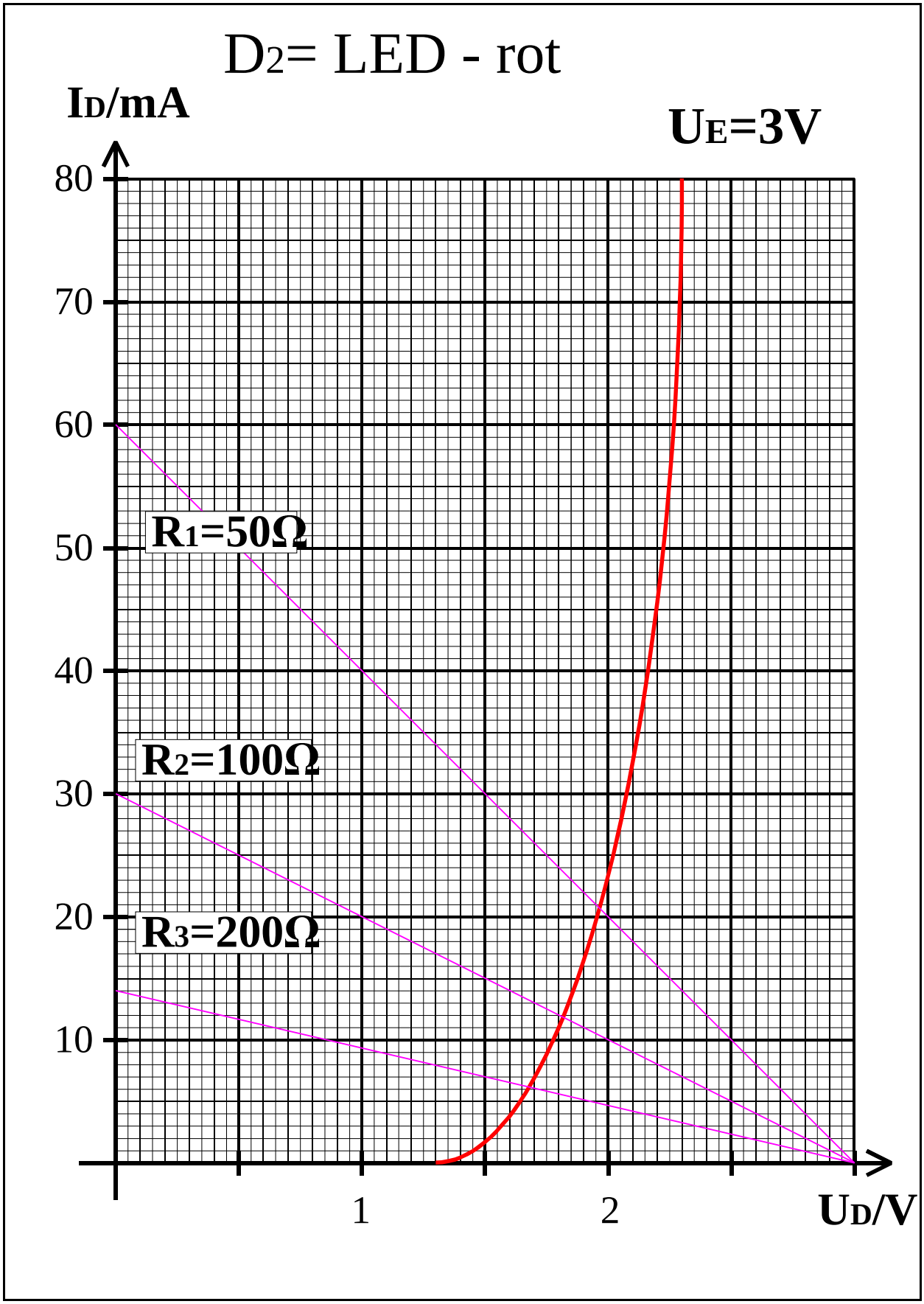
D2= LED - rot
ID/mA
UE=3V
80
70
60
50
40
30
20
10
R1=50Ω
R2=100Ω
R3=200Ω
1
2
UD/V

Abb. 5

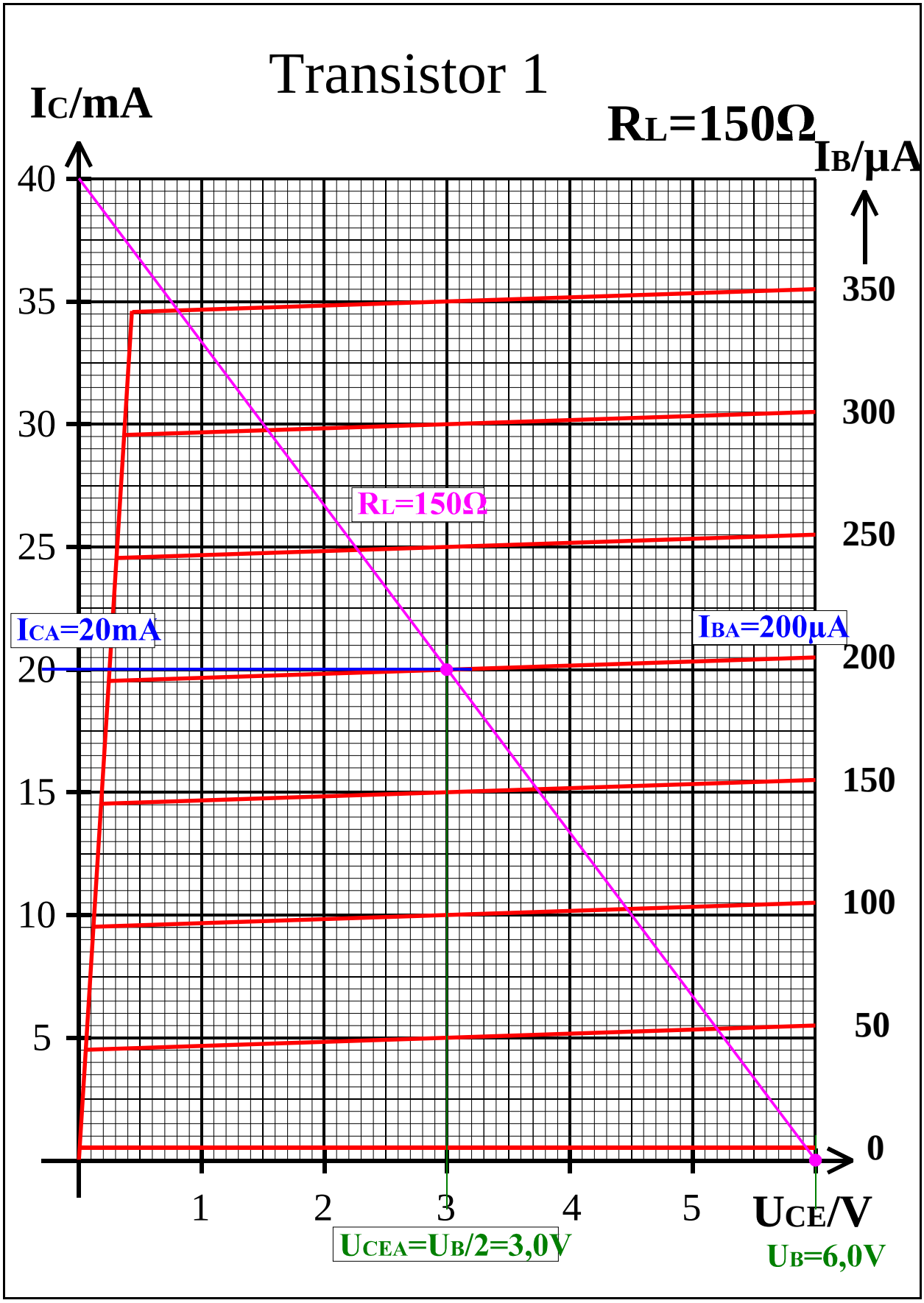
Transistor 1
IC/mA
RL=150Ω
IB/µA
40
35
30
25
20
15
10
5
350
300
250
200
150
100
50
0
RL=150Ω
ICA=20mA
IBA=200µA
1
2
3
4
5
UCE/V
UCEA=UB/2=3,0V
UB=6,0V

Abb. 6

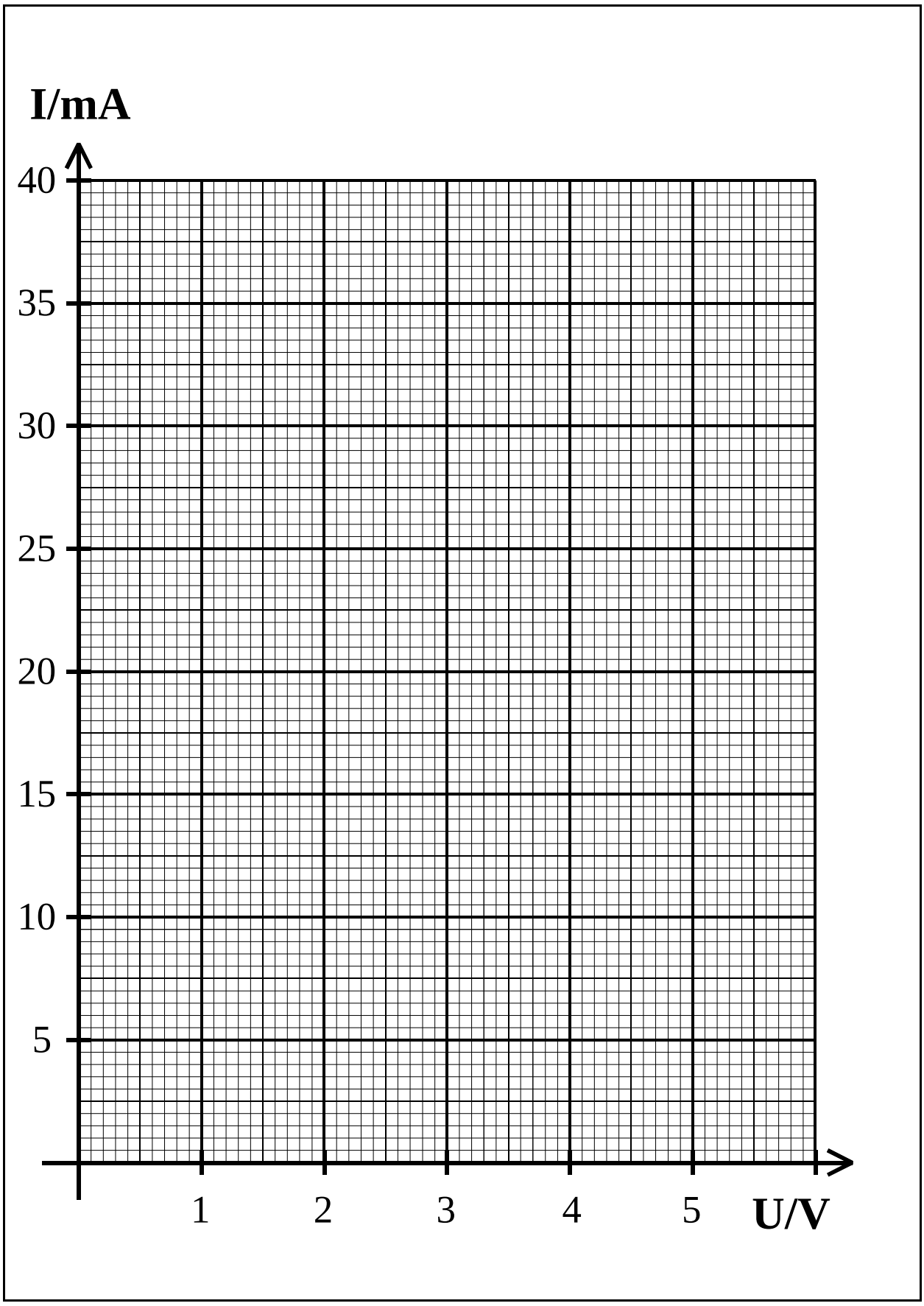

Abb. 7