

Lista das Variantes do Trabalho de Casa 5

#	Numero	Nome Completo	Variante
1	20192236	Belarmino Armando Chaúque	1
2	20185094	Gérson Hugo de Sousa Chea	2
3	20222401	Jorge Augusto Chingore	3
4	20212884	Oliveira Jorge Cipriano	4
5	20212885	Armando Alfredo Congolo	5
6	20212886	Félix Xadrequê Conwana	6
7	20222372	Bilson Isaias Cuetule	7
8	20172323	Daússe Fernando Daússe	8
9	20192237	José Jaime Devane	9
10	20212892	Súcia Da Lurdes Eurico	10
11	20222392	André Reginaldo Gabisse	11
12	20222387	Aderito Alberto Goenha	12
13	20222393	Russel Paulito Gouveia	13
14	20222378	Izbin Custódio Celestina Hugo	14
15	20180408	Ornan António Joaquim	15
16	20212895	João Félix João	16
17	20202497	Nascimento Pedro Montanha Júnior	17
18	20185392	Ivónio David Wetasse Kamota	18
19	20222366	Edilson David Juvenil Langa	19
20	20222376	Tuyishimire Lievin	20
21	20212900	Lísio Dos Santos Luis	21
22	20181723	José João Macamo	22
23	20202281	Afonso Alexandre Machava	23
24	20212901	Manuel José António Madogolela	24
25	20222369	Ayaz Mahomed Sulemane	25
26	20202485	France António Mandlate	26
27	20222389	Rivaldo Nolasco Manhique	27
28	20192243	Alfredo Jonas Marrime	28
29	20222391	Mariza Vitorino Marrime	29
30	20192247	Hélio Faifane Matavele	30
31	20205591	Edilson Marvin Adolfo Mavila	31
32	20212904	André Matias Miambo	32
33	20222381	Felicien Muli Kitungwa	33

34	20222379	Ezequiel Deviss Mutchaly	34
35	20222398	Garibaldo De Andrade Eduardo Napualo	35
36	20222396	Luís Mariano Jaime Ndaipa	36
37	20192239	Bernardo Arnaldo Nhambe	37
38	20212909	Valério De Jesus Nhambele	38
39	20222375	Jaime Joaquim Nhambirre	39
40	20222373	Armando Rafael Nhampossa	40
41	20212910	Bernardo Bonifácio Nhantumbo	41
42	20185471	Clarice Chelsea Lameque Noé Nhantumbo	42
43	20206095	Januário Ângelo Nhatsave Júnior	43
44	20222395	Arvedes Agnaldo Manla Oleite	44
45	20222367	Luís Santos Ouana	45
46	20202500	Priscila Da Natércia Abel Polaze	46
47	20203147	Lucas Chinai Quembo	47
48	20212914	Artiel Marcelina Martins Rungo	48
49	20182262	Zefanias Arone Elias Sabane	49
50	20217022	Samuel João Simango	50
51	20222383	Dimitri Gimo Siteo	51
52	20202508	Sortane Gabriel Siedade Sortane	52
53	20222374	Carlos Domingos Tinga	53
54	20192222	Marcelino Afonso Tivane	54
55	20222386	William Muhirwa Torero	55
56	20222399	Hélio Antonio Tsope	56
57	20222370	Lercio João Ernesto Uafinda	57
58	20222385	Itamar Orlando Sindique Valentim	58
59	20212921	Samuel Célia Vilanculos	59
60	20222377	Stélio Francisco Vilanculos	60
61	20215595	Carlos Marcelo Zandamela	61



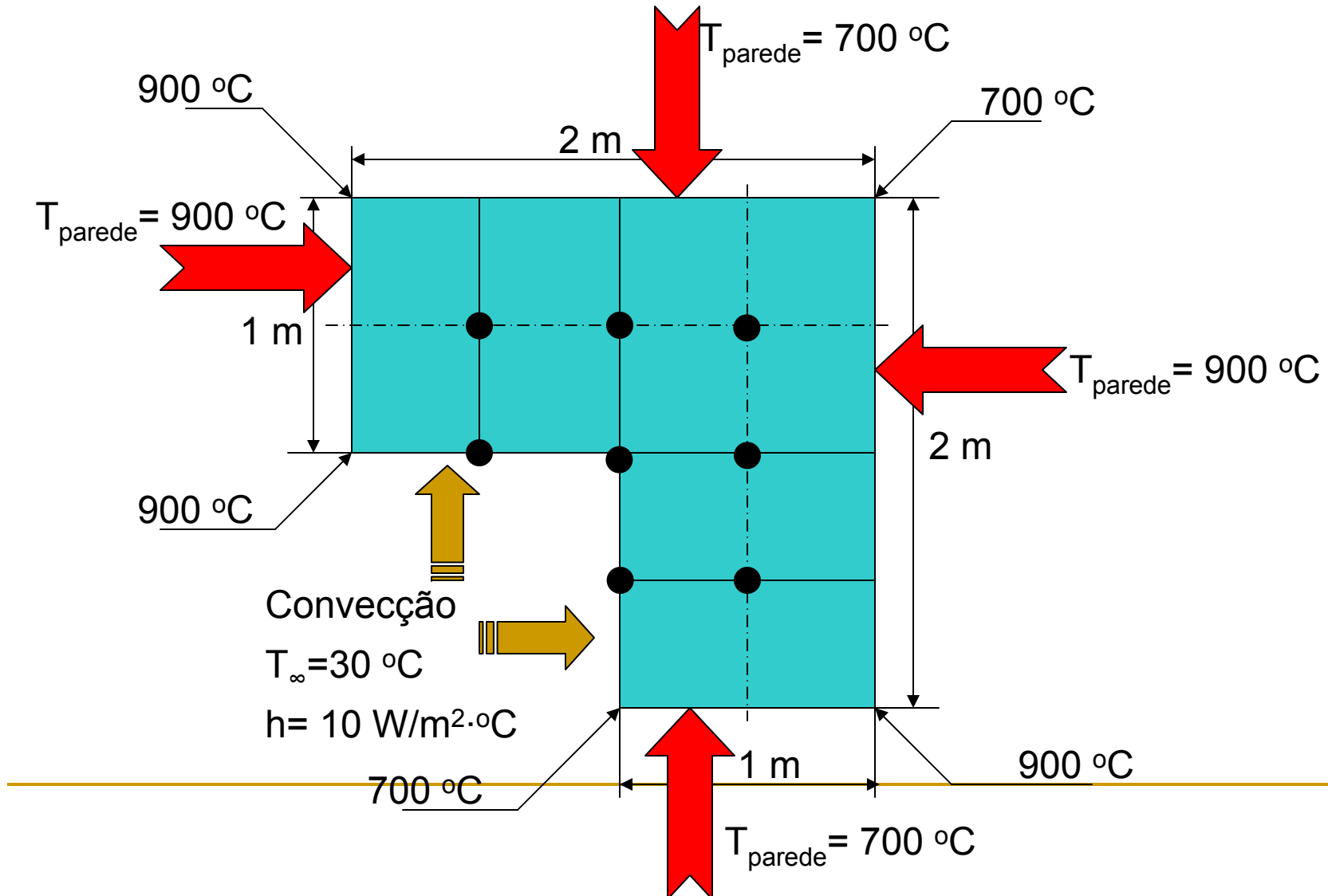
Transmissão de calor

Trabalho Para Casa de Elementos
Finitos

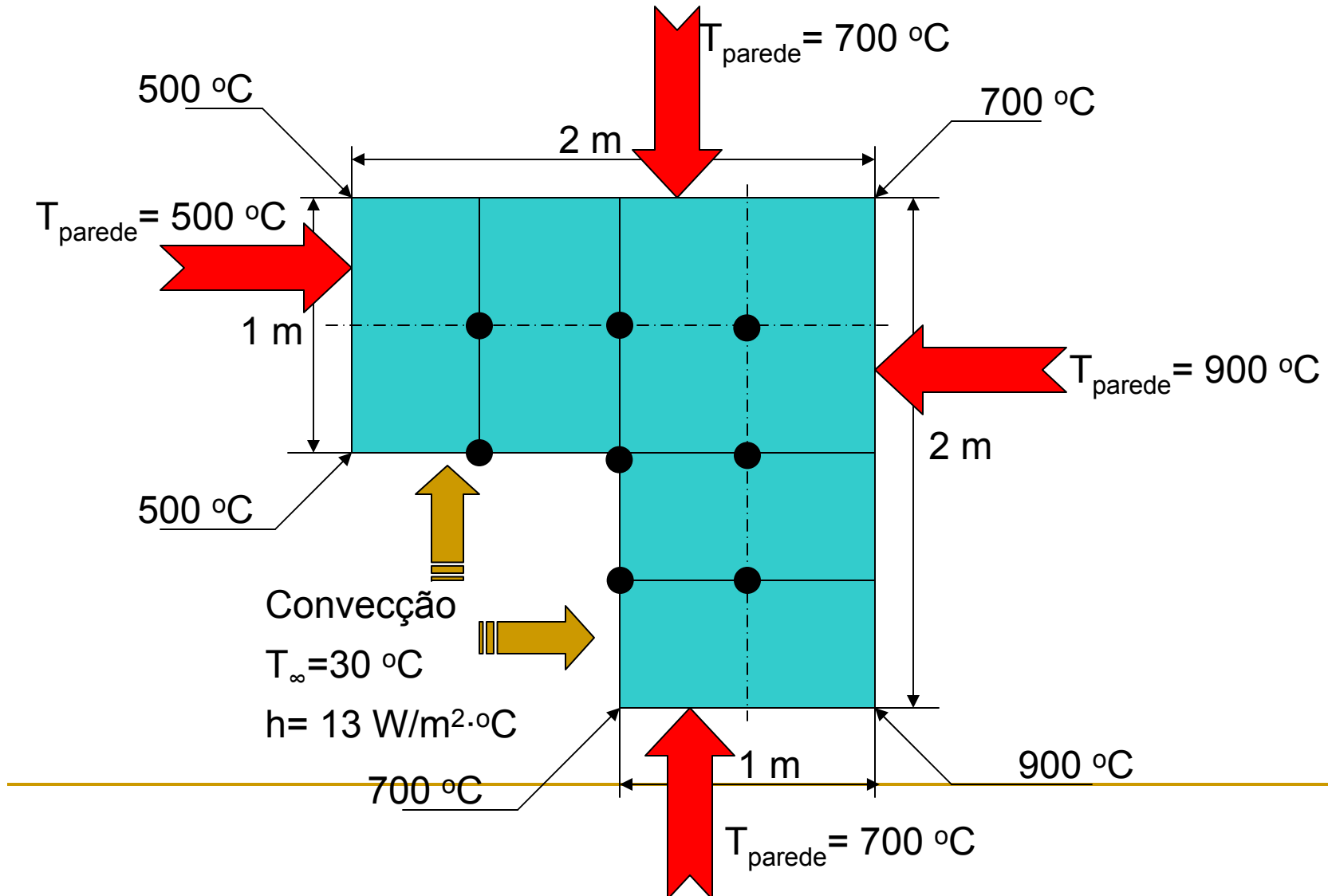
Problema I

- Calcular as temperaturas dos nós assinalados a preto para uma placa de prata com as dimensões apresentadas na figura e as seguintes características:
 - Coeficiente de condutibilidade térmica 429 W/mk
 - Densidade 10500 kg/m³
 - Calor específico 235 J/kgK
- Variantes 1,2,3,4,5,6,7,8,9,10.

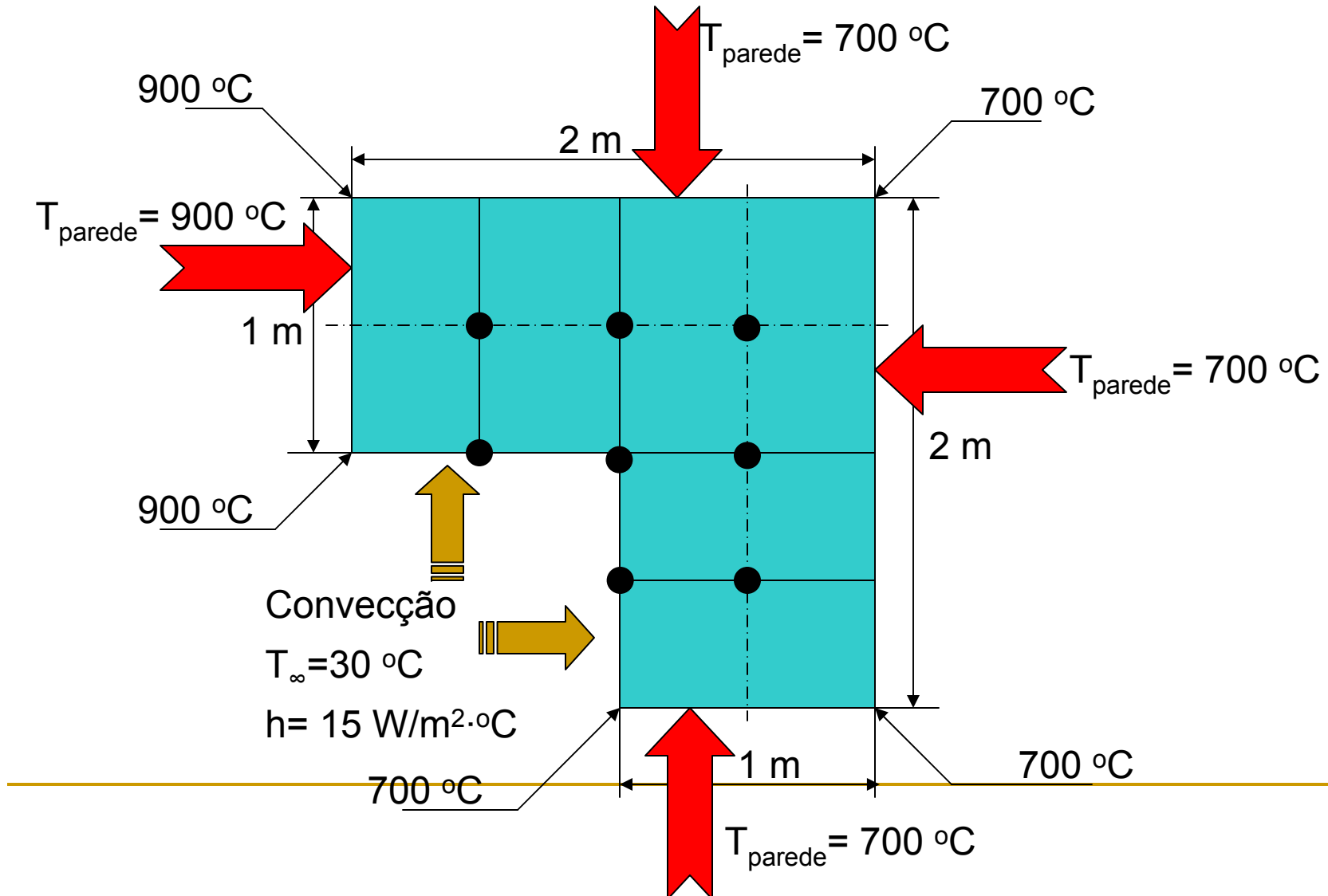
Variante 1



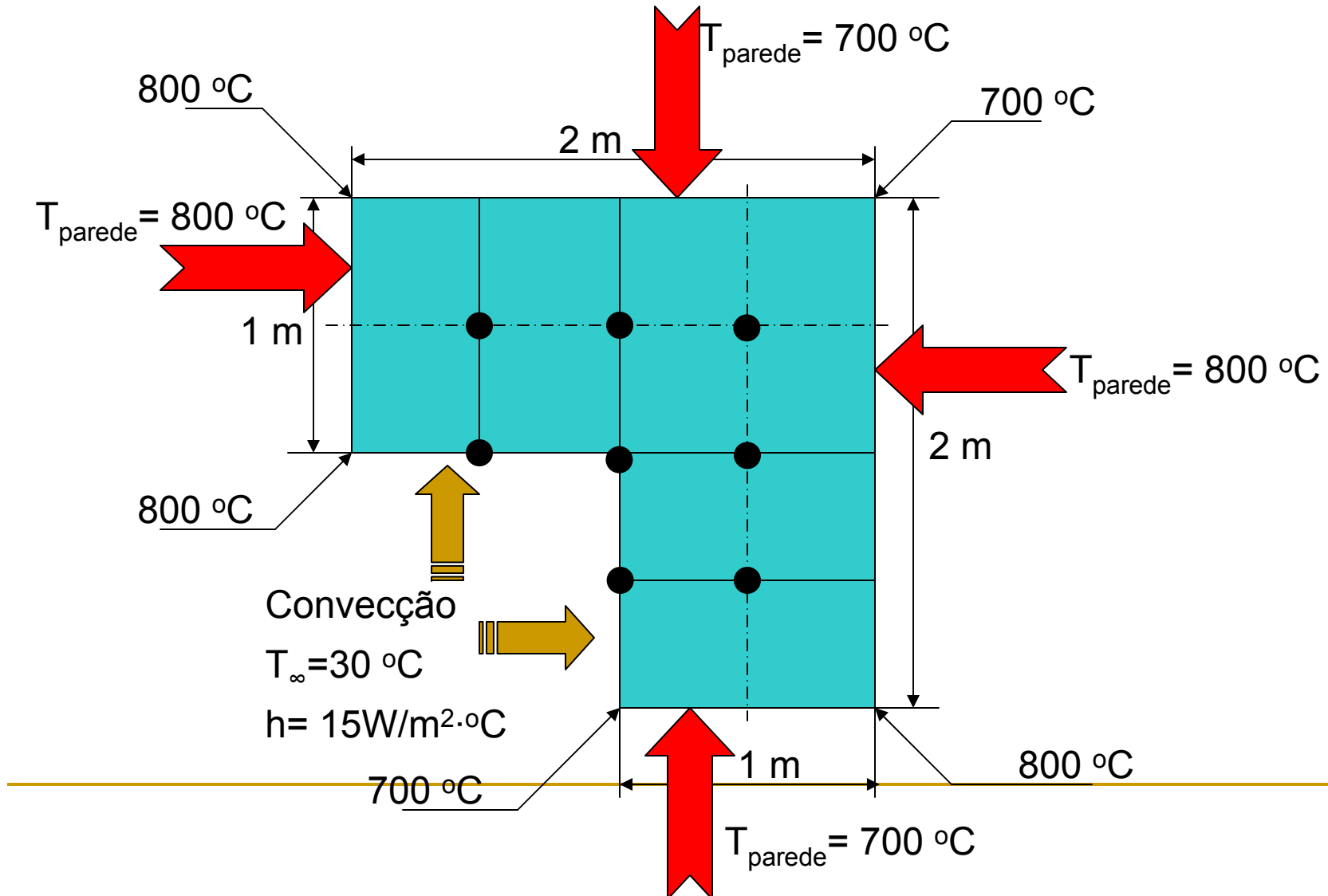
Variante 2



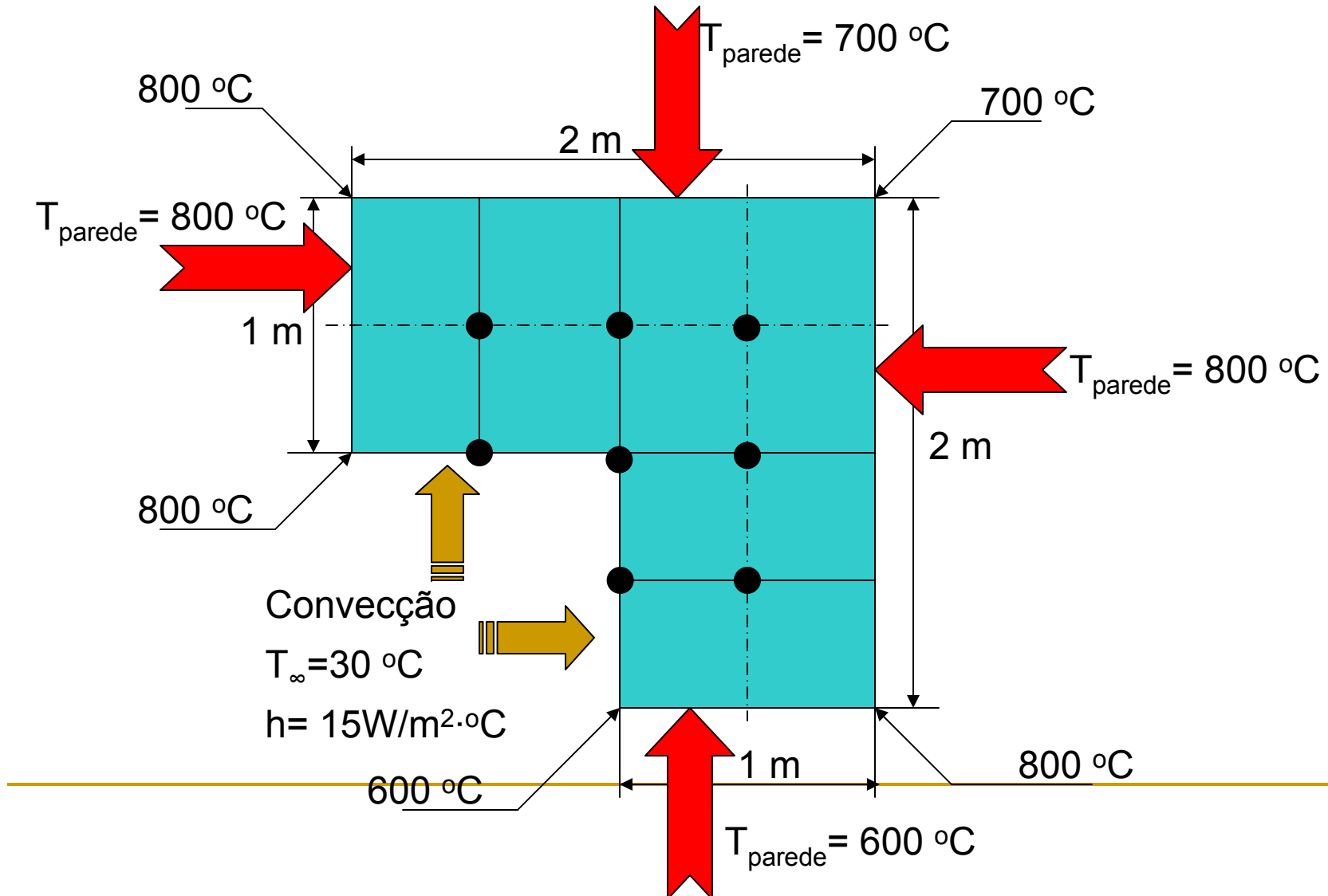
Variante 3



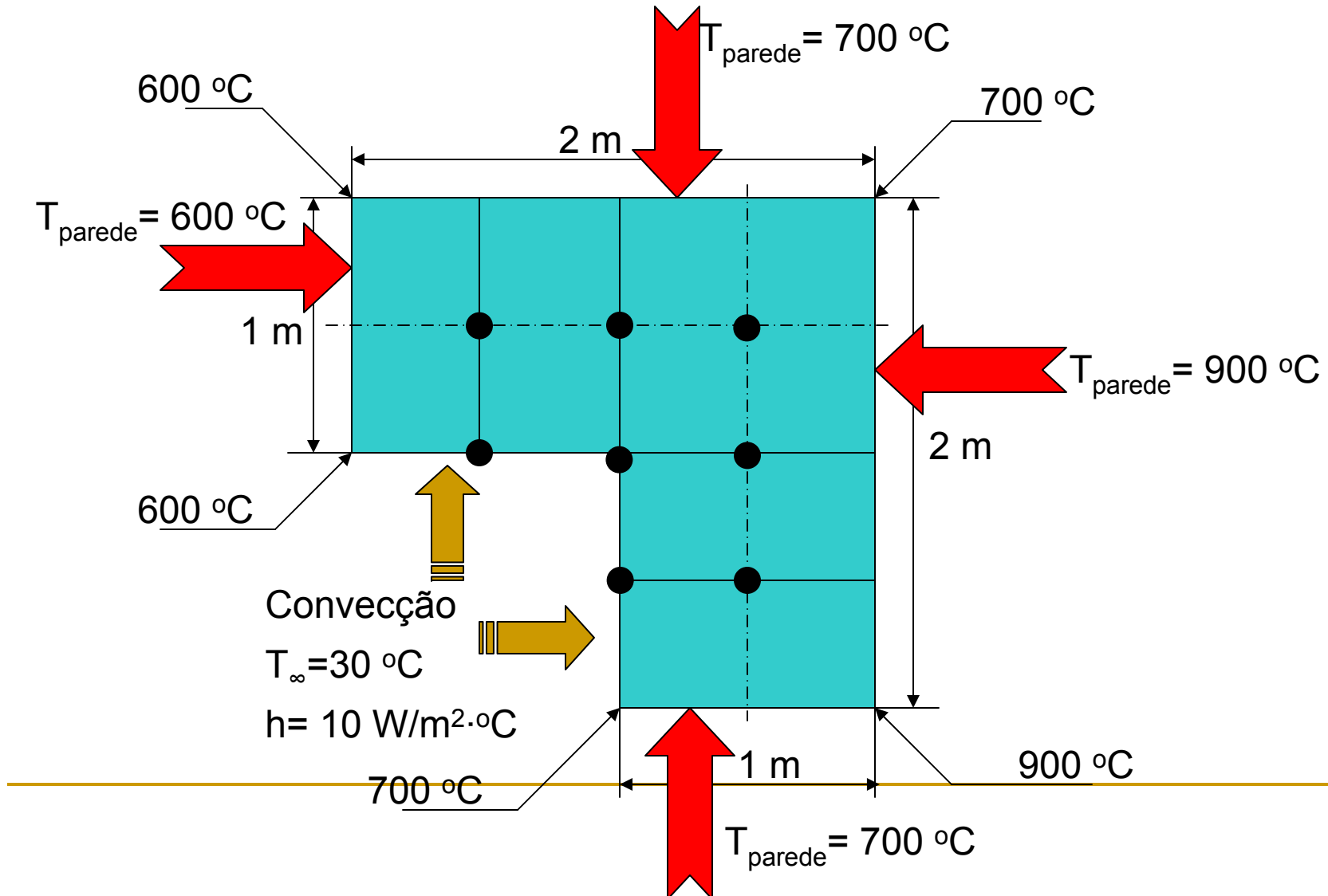
Variante 4



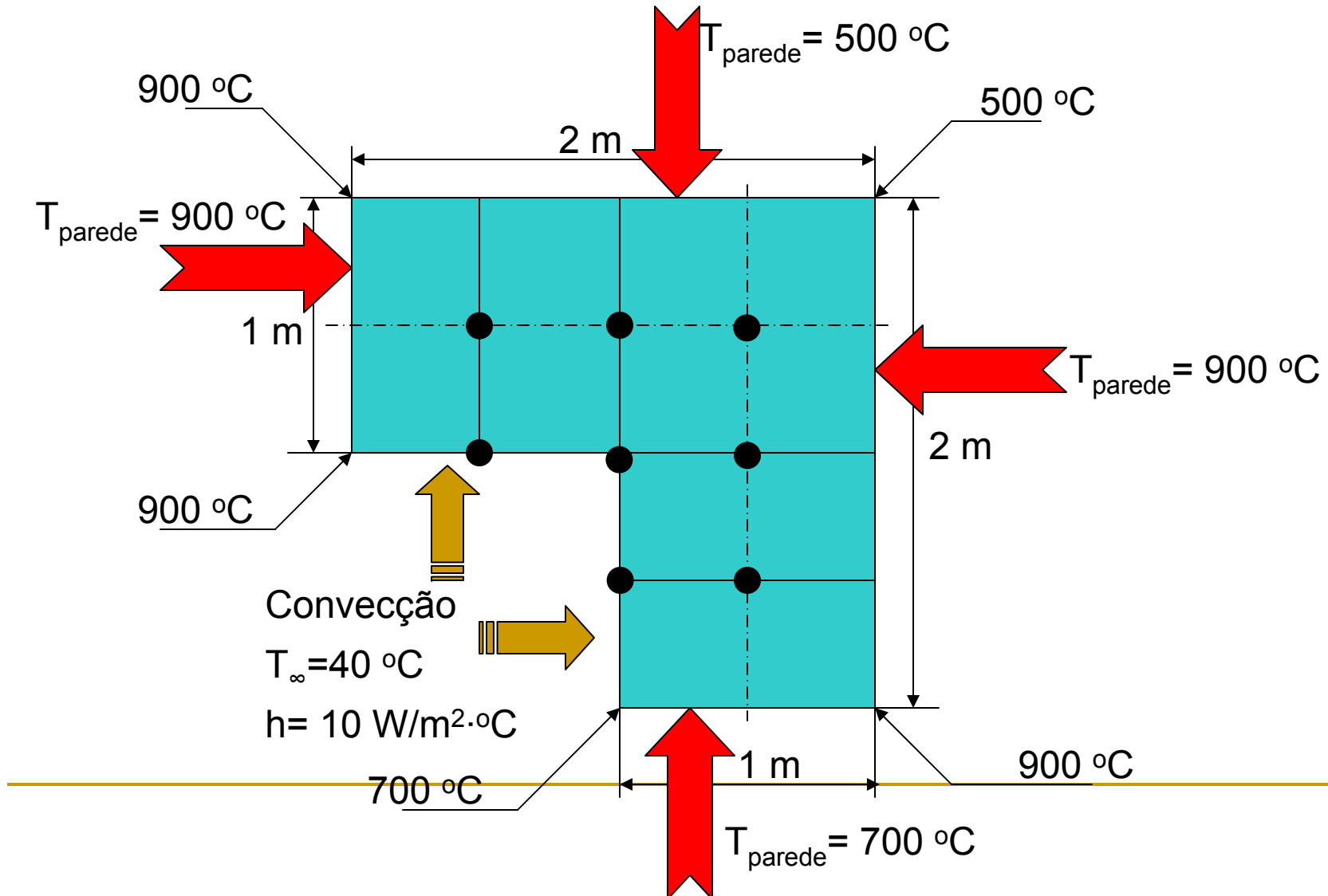
Variante 5



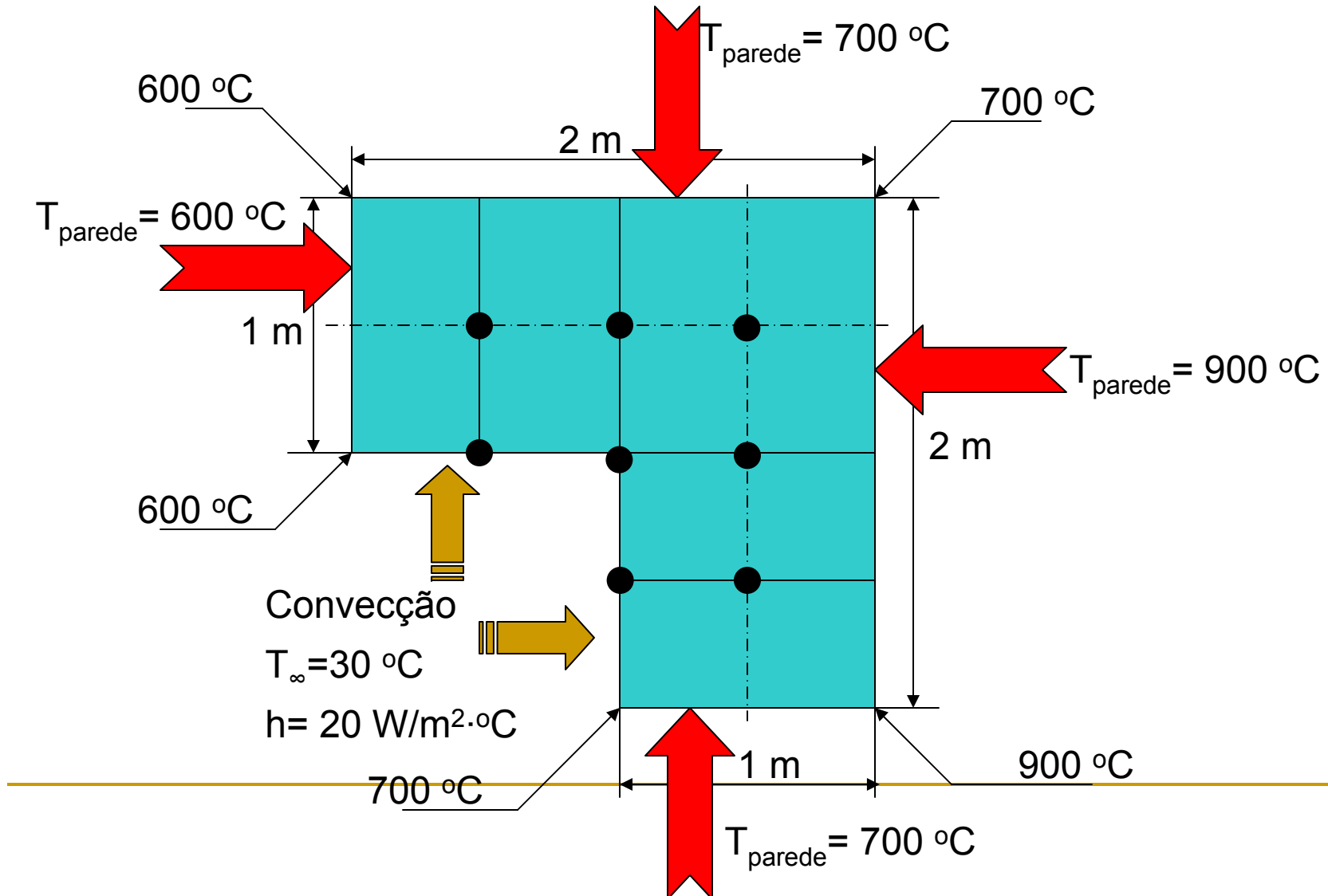
Variante 6



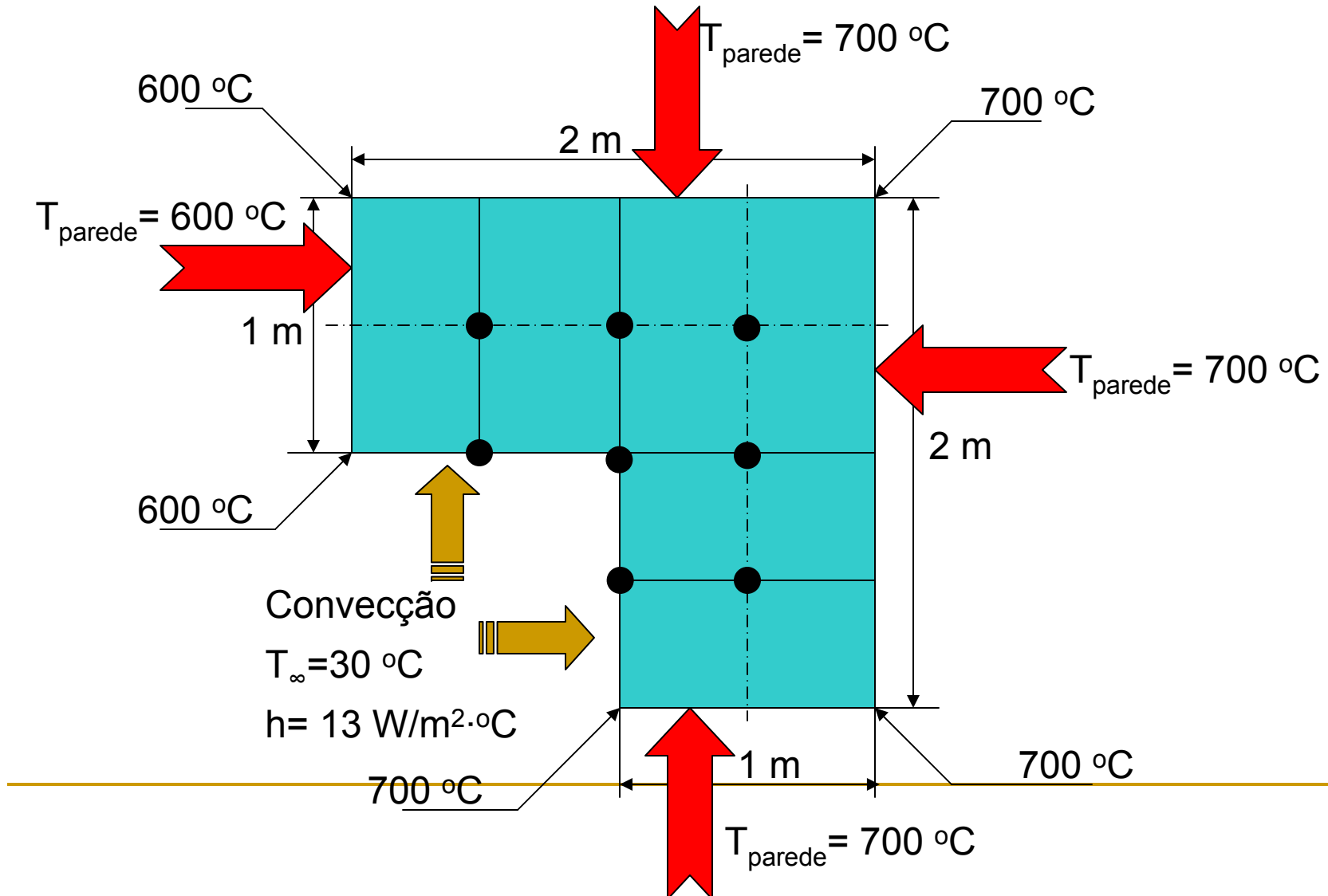
Variante 7



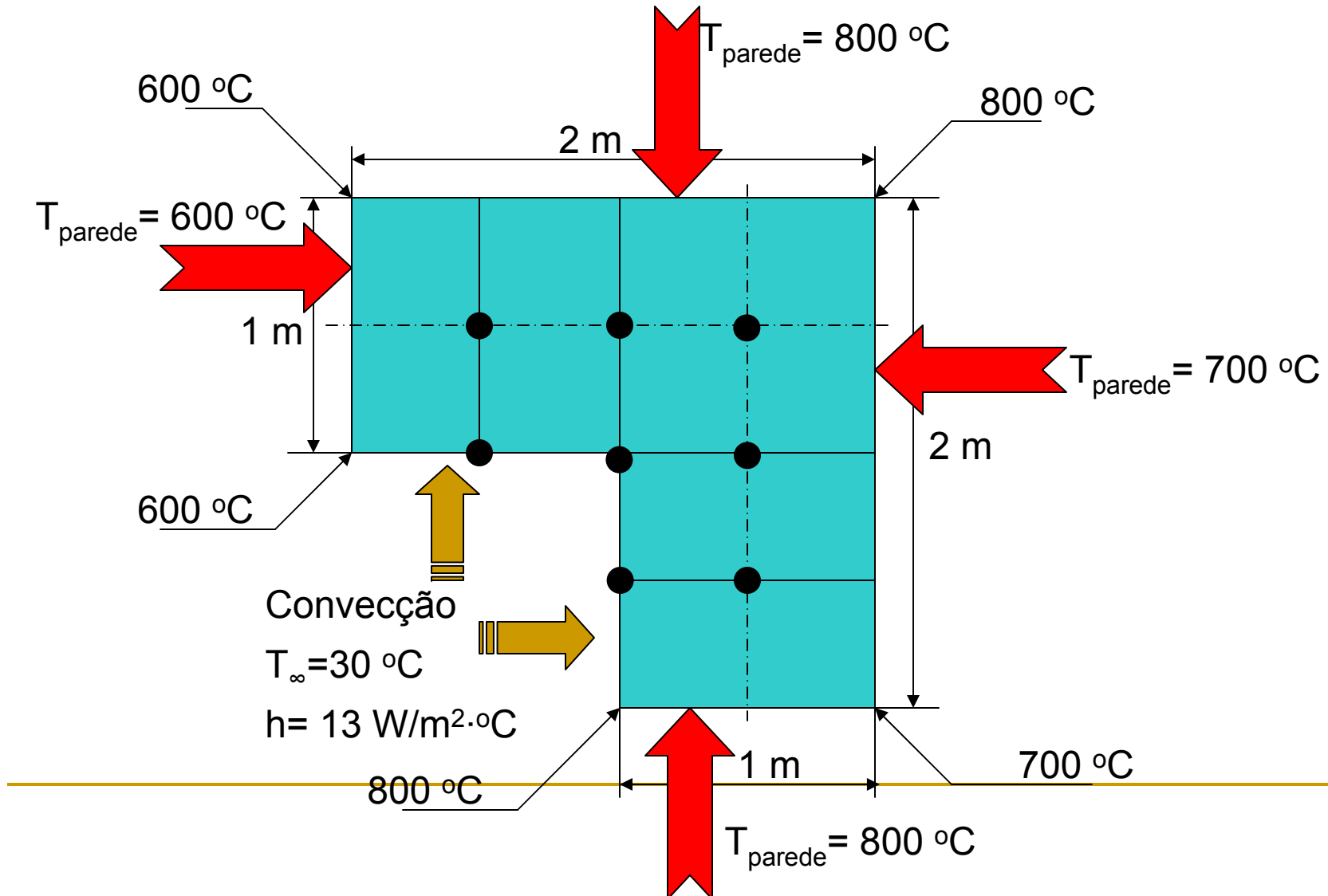
Variante 8



Variante 9



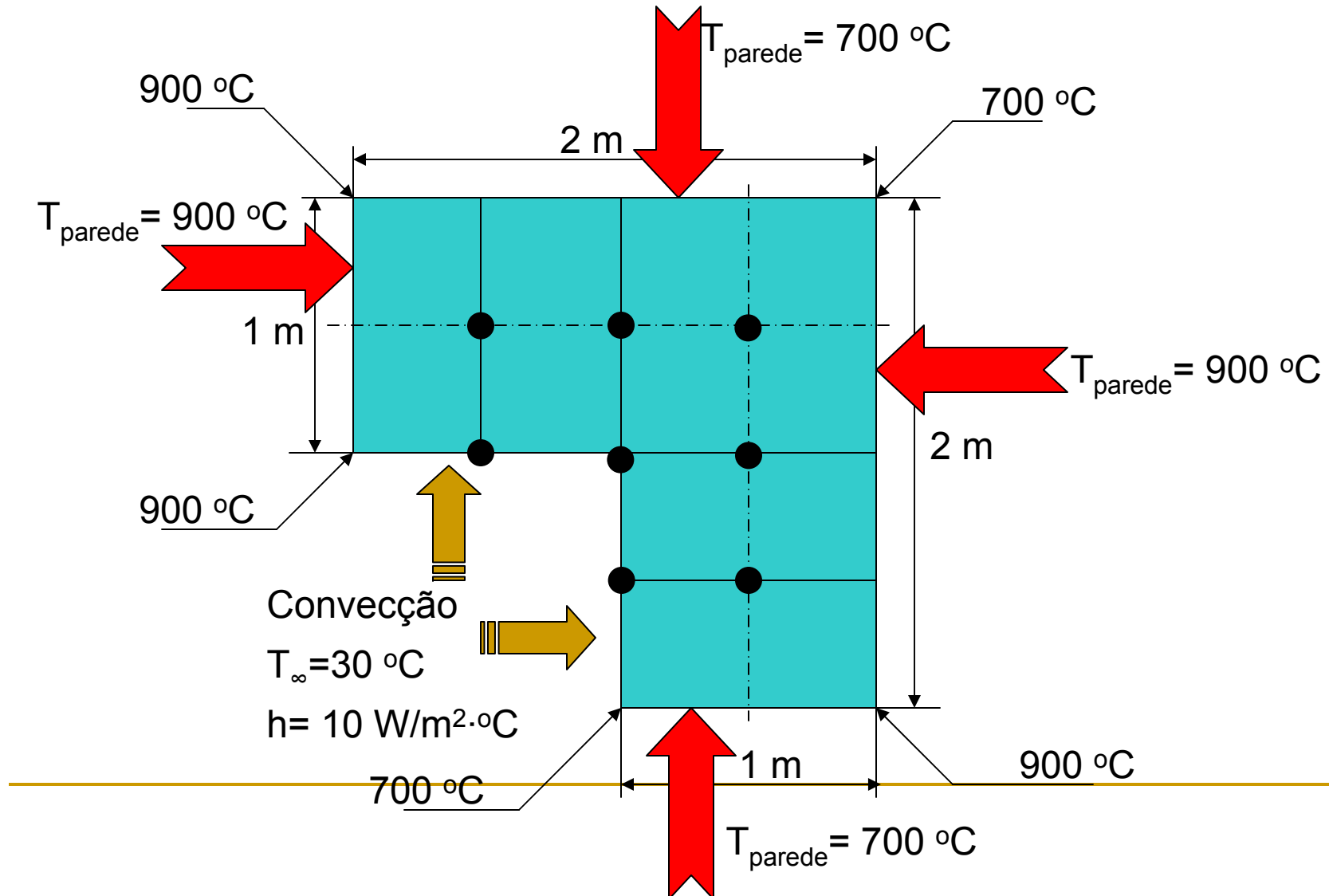
Variante 10



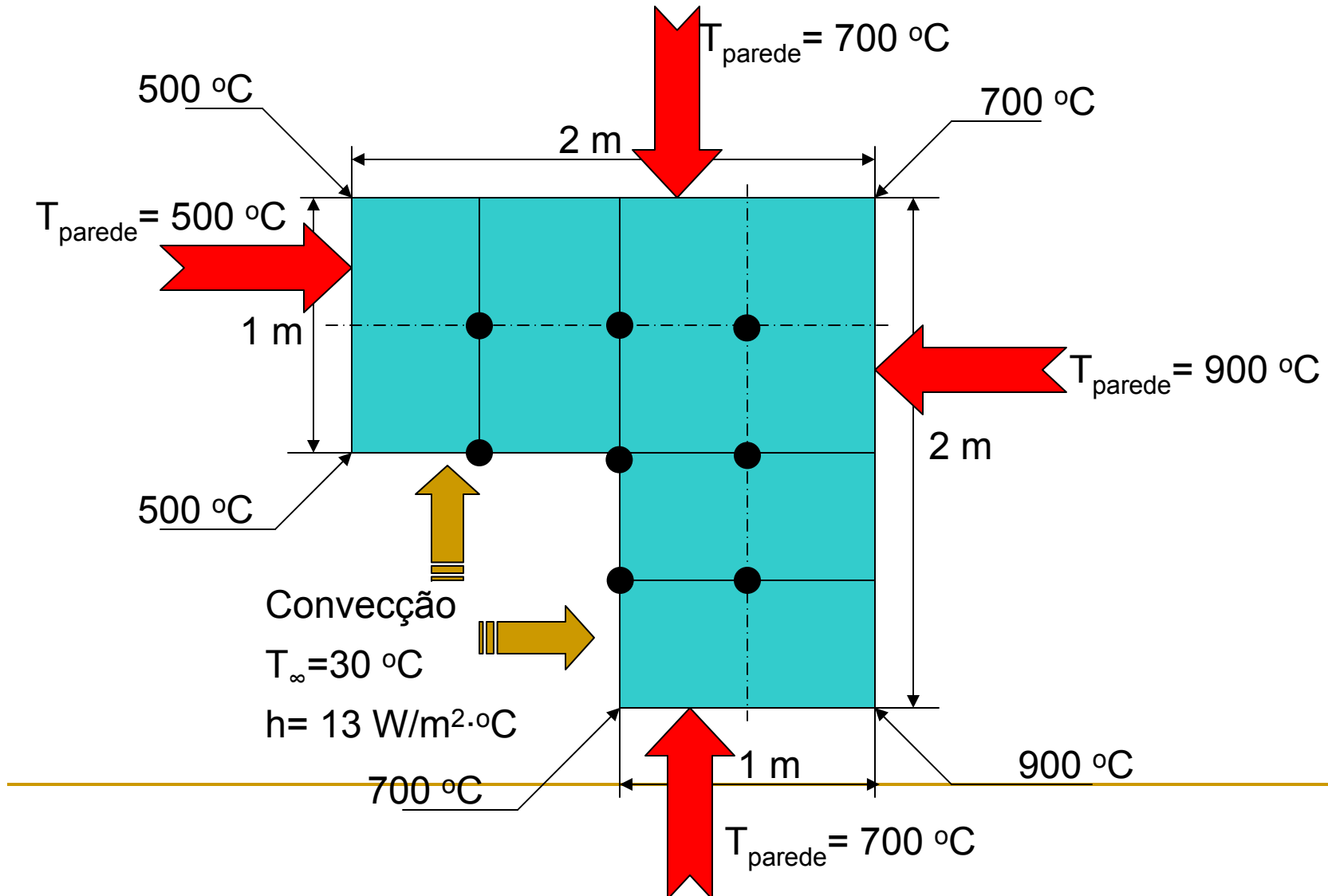
Problema II

- Calcular as temperaturas dos nós assinalados a preto para uma placa de aço com as dimensões apresentadas na figura e as seguintes características:
 - Coeficiente de condutibilidade térmica $60,5 \text{ W/mk}$
 - Densidade 7854 kg/m^3
 - Calor específico 434 J/kgK
- Variantes 11,12,13,14,15,16,17,18,19,20.

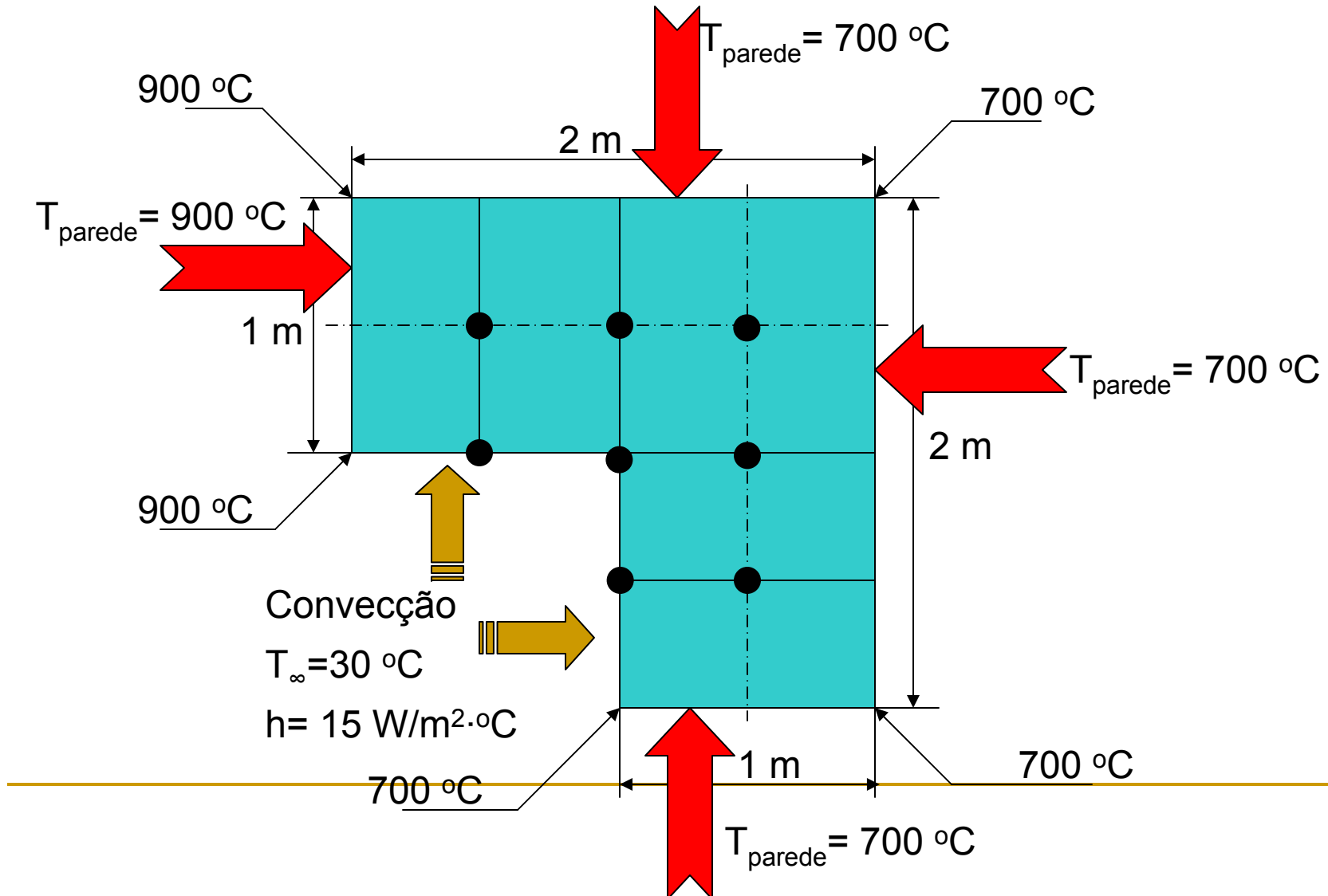
Variante 11



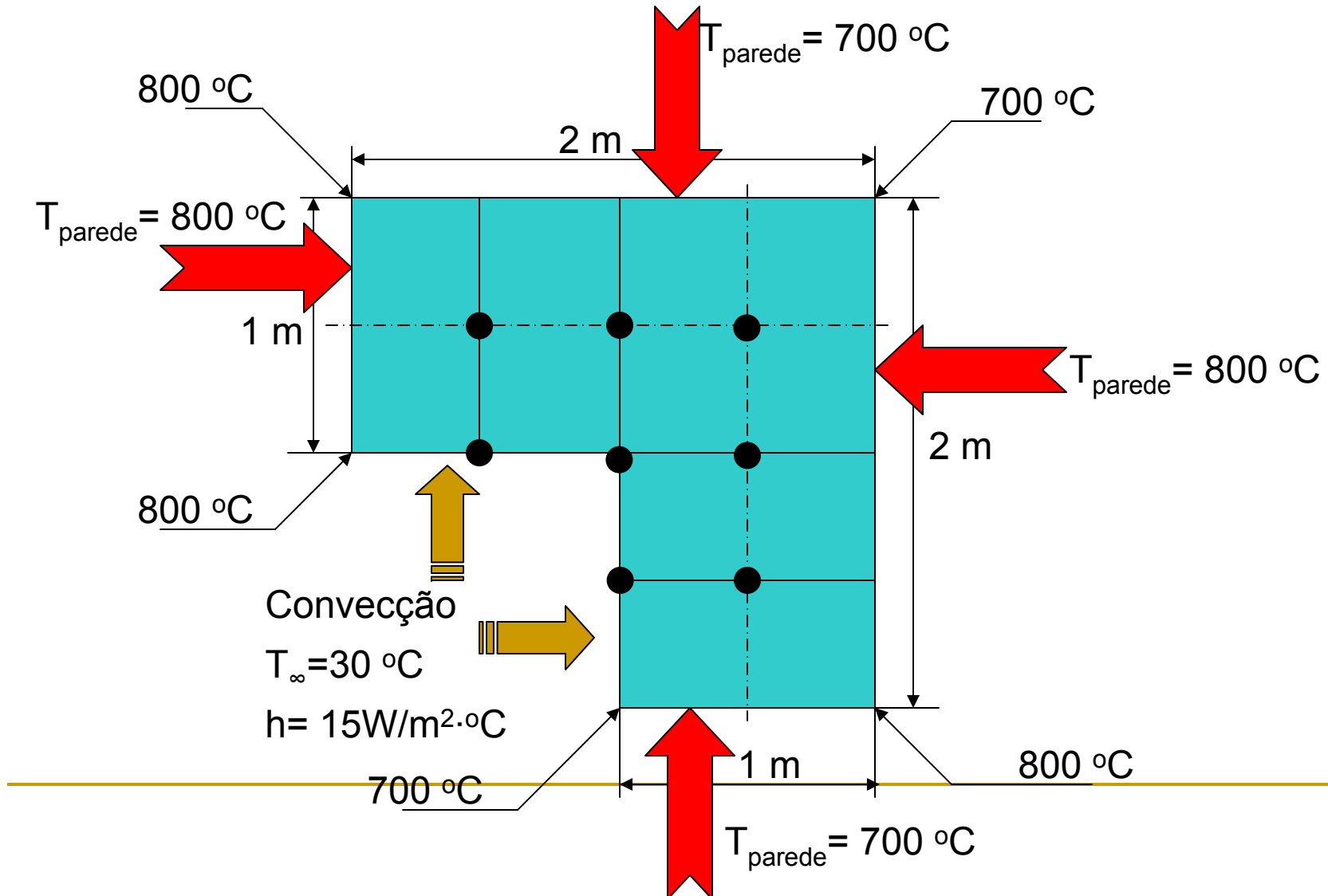
Variante 12



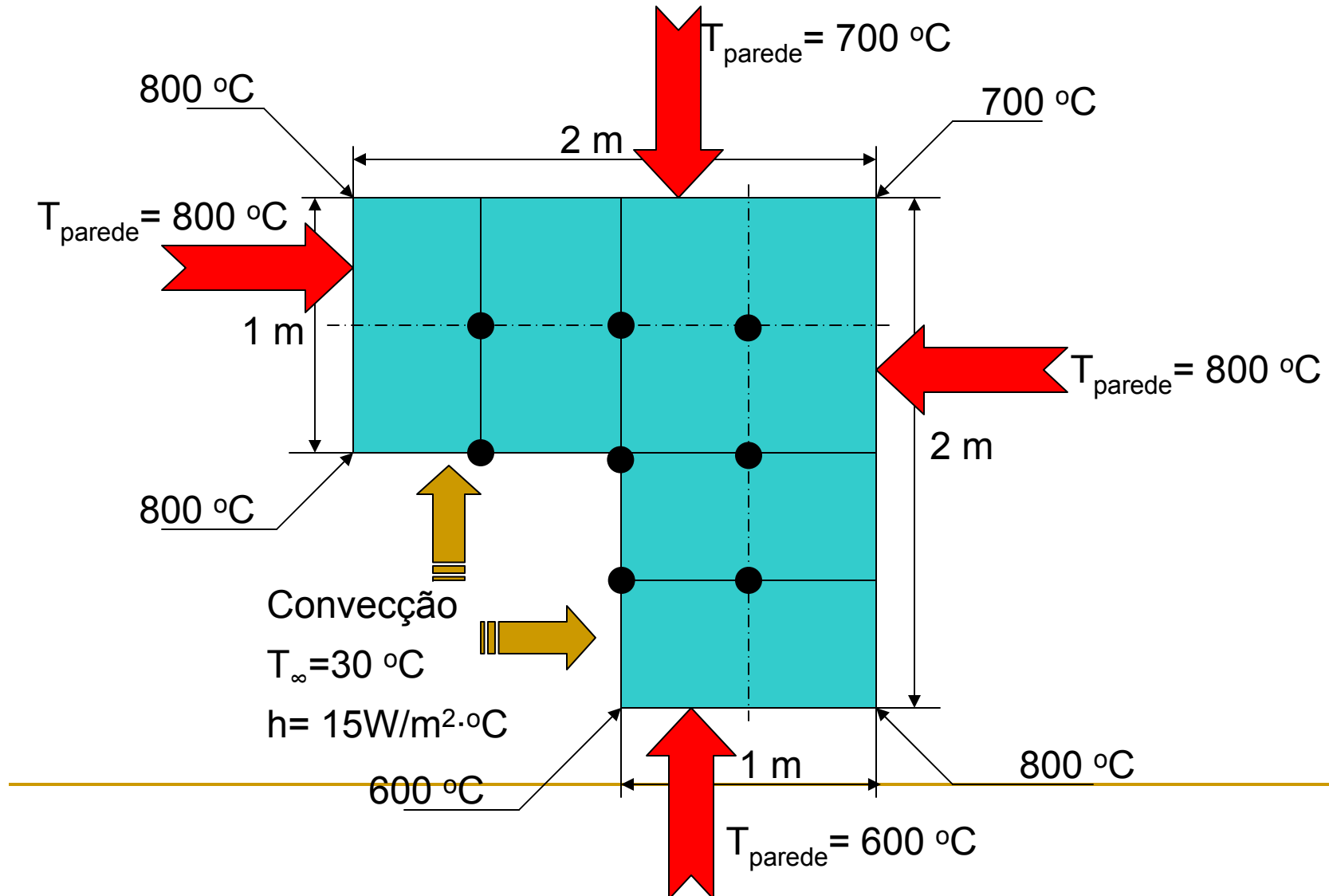
Variante 13



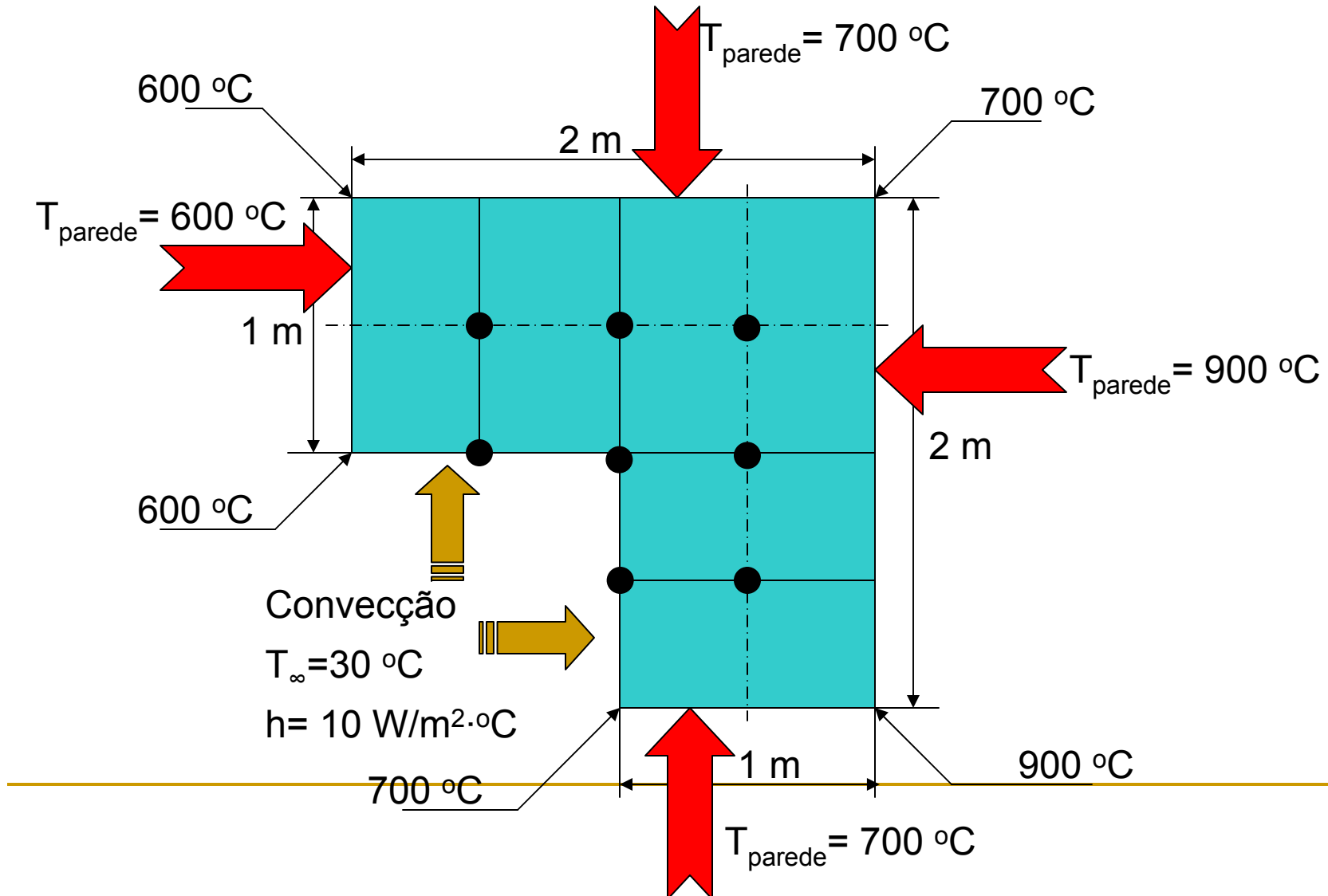
Variante 14



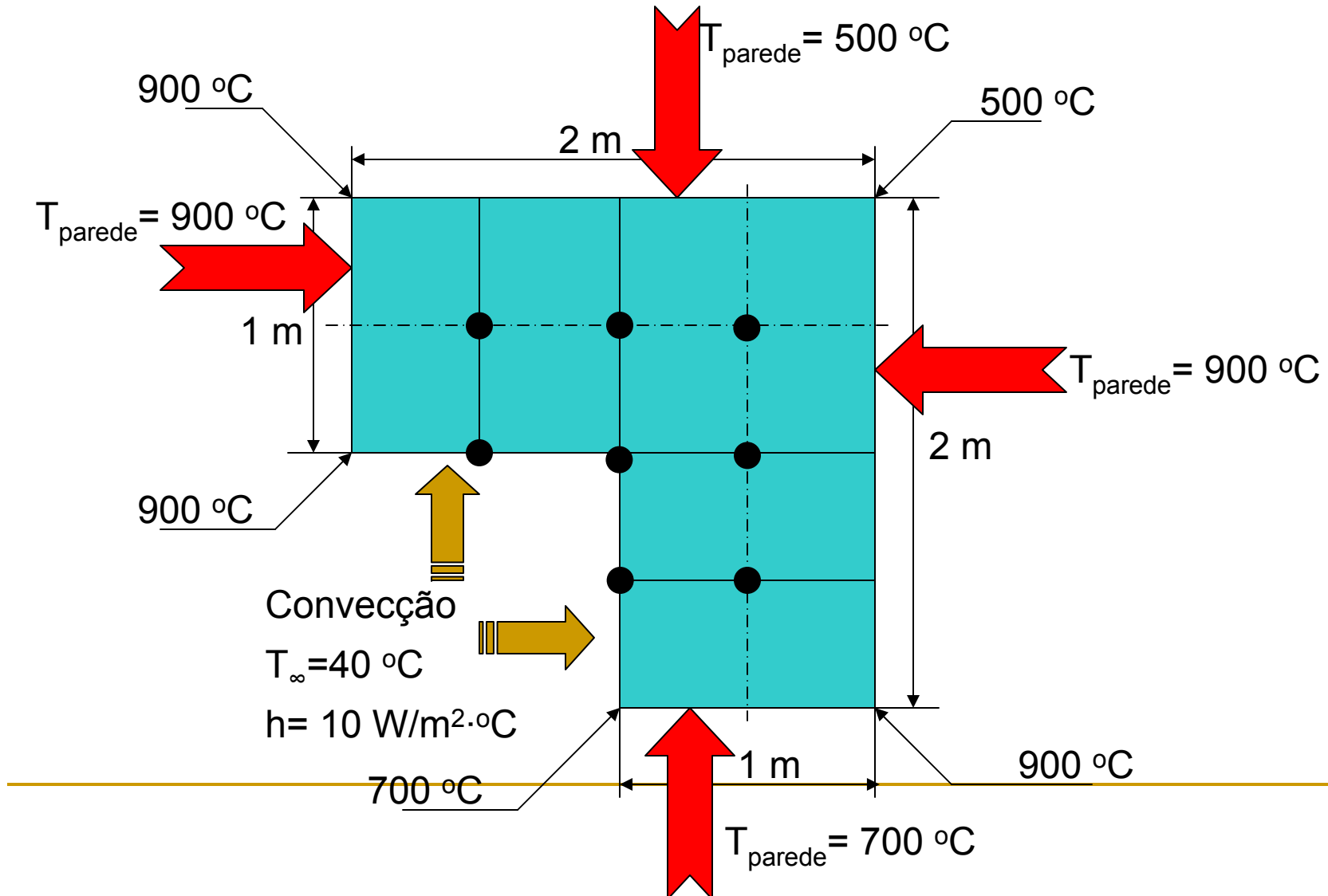
Variante 15



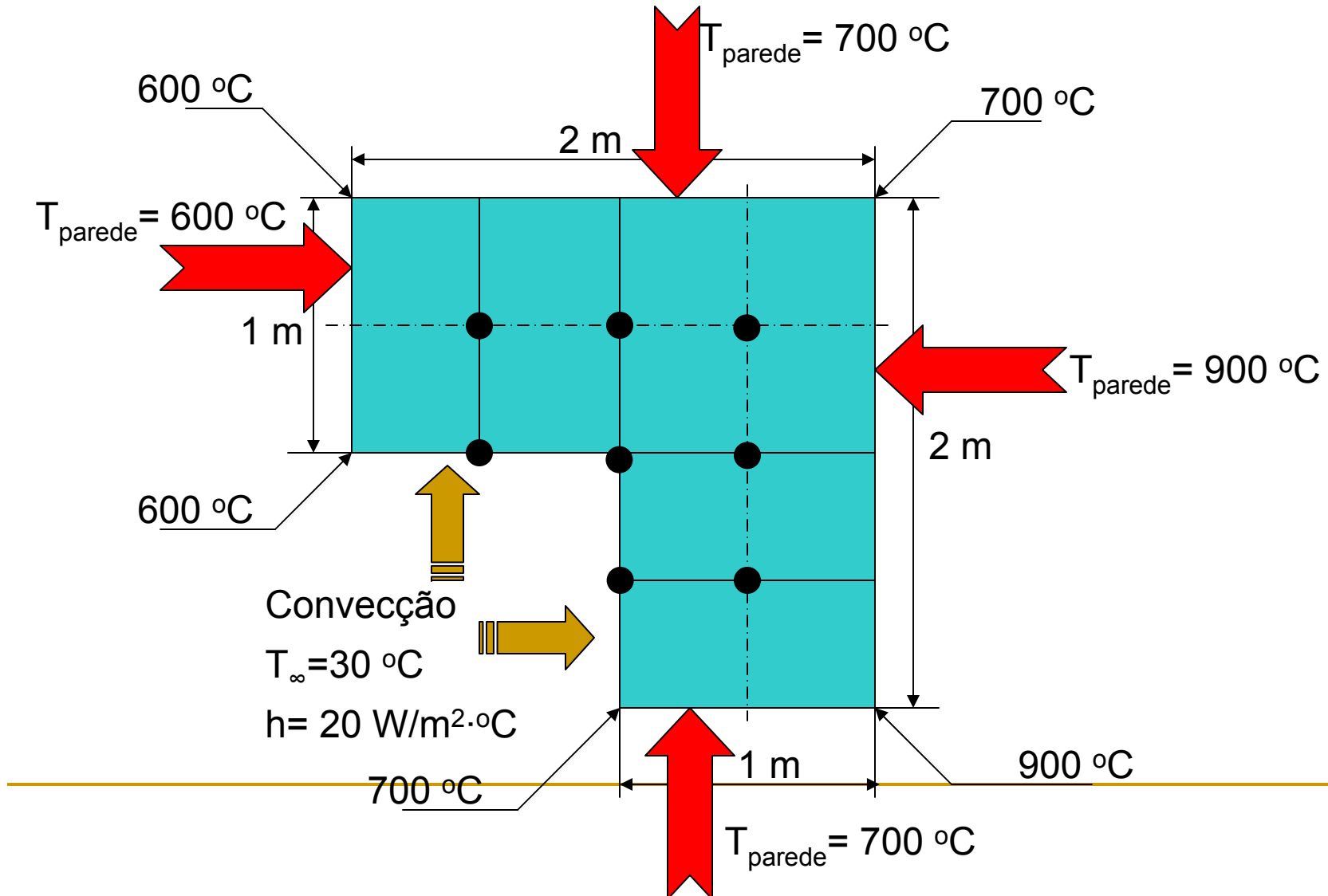
Variante 16



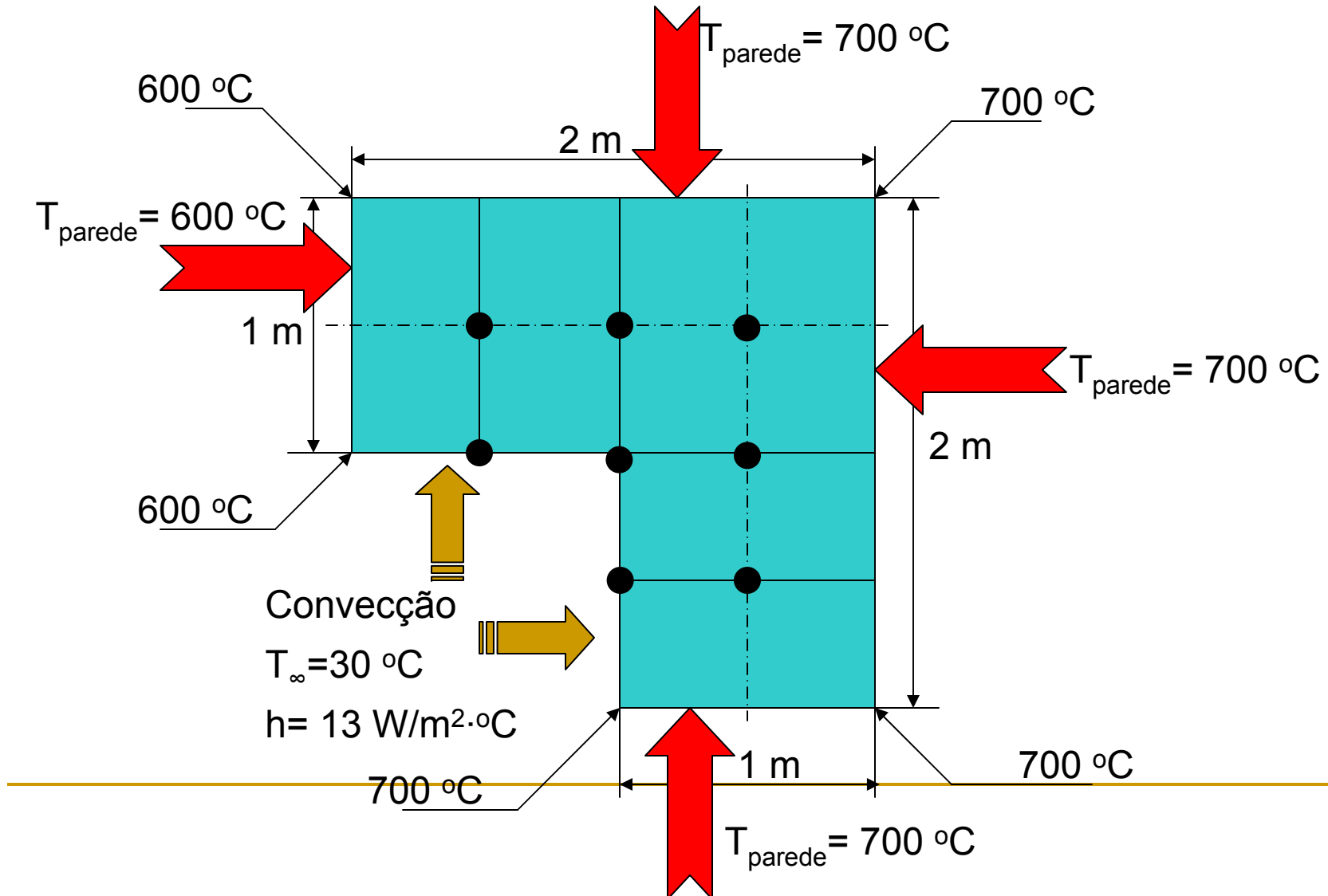
Variante 17



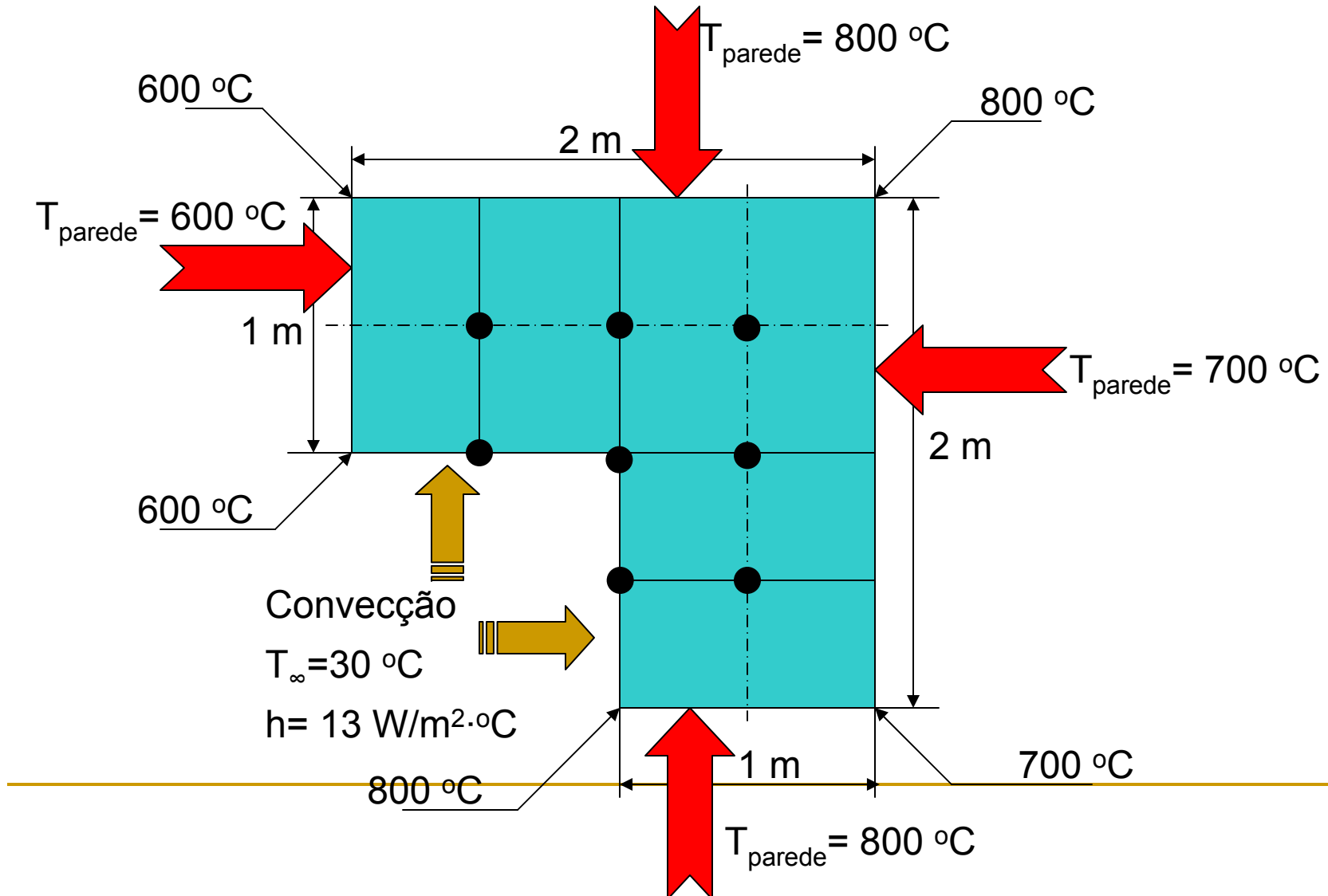
Variante 18



Variante 19



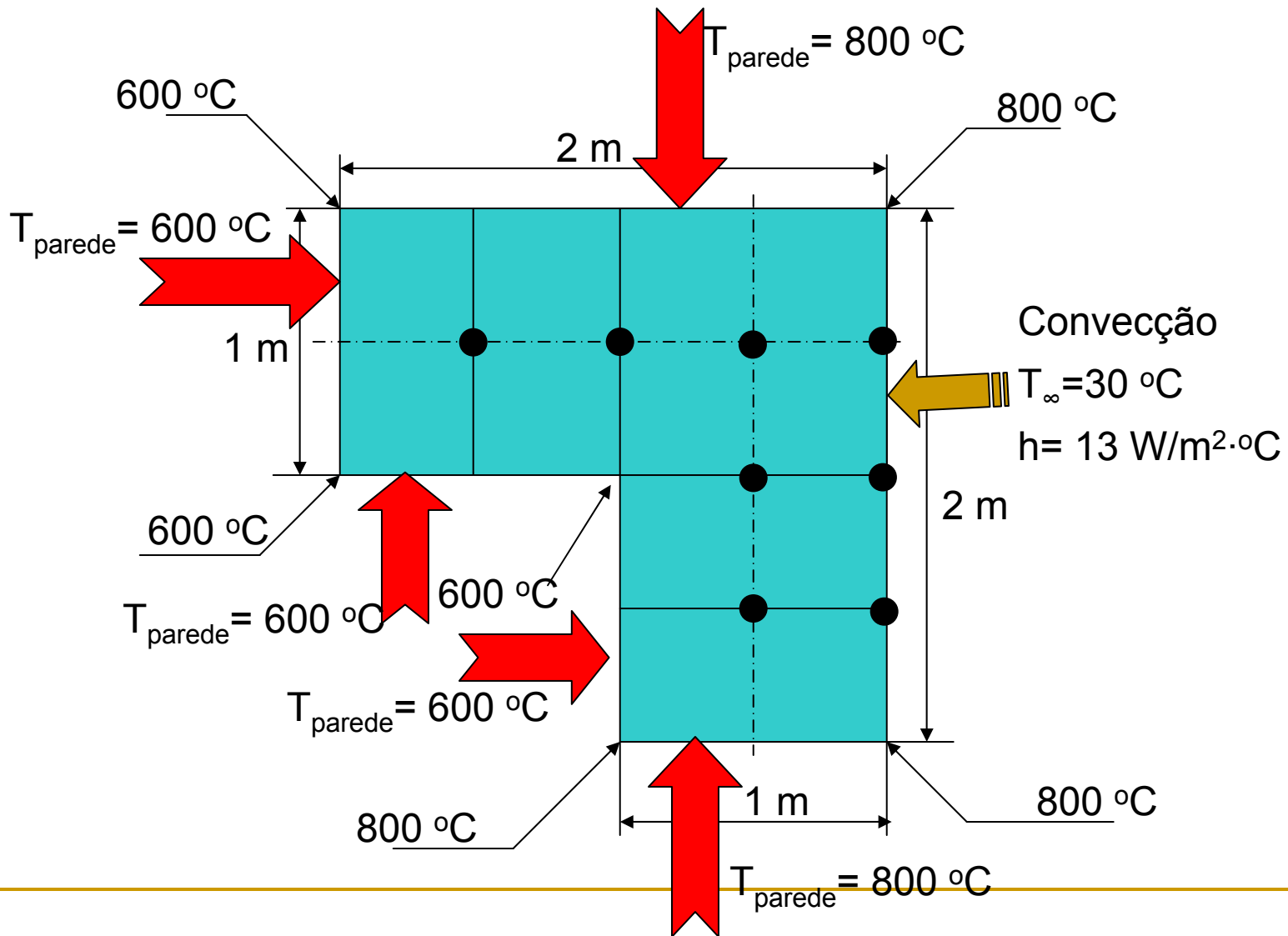
Variante 20



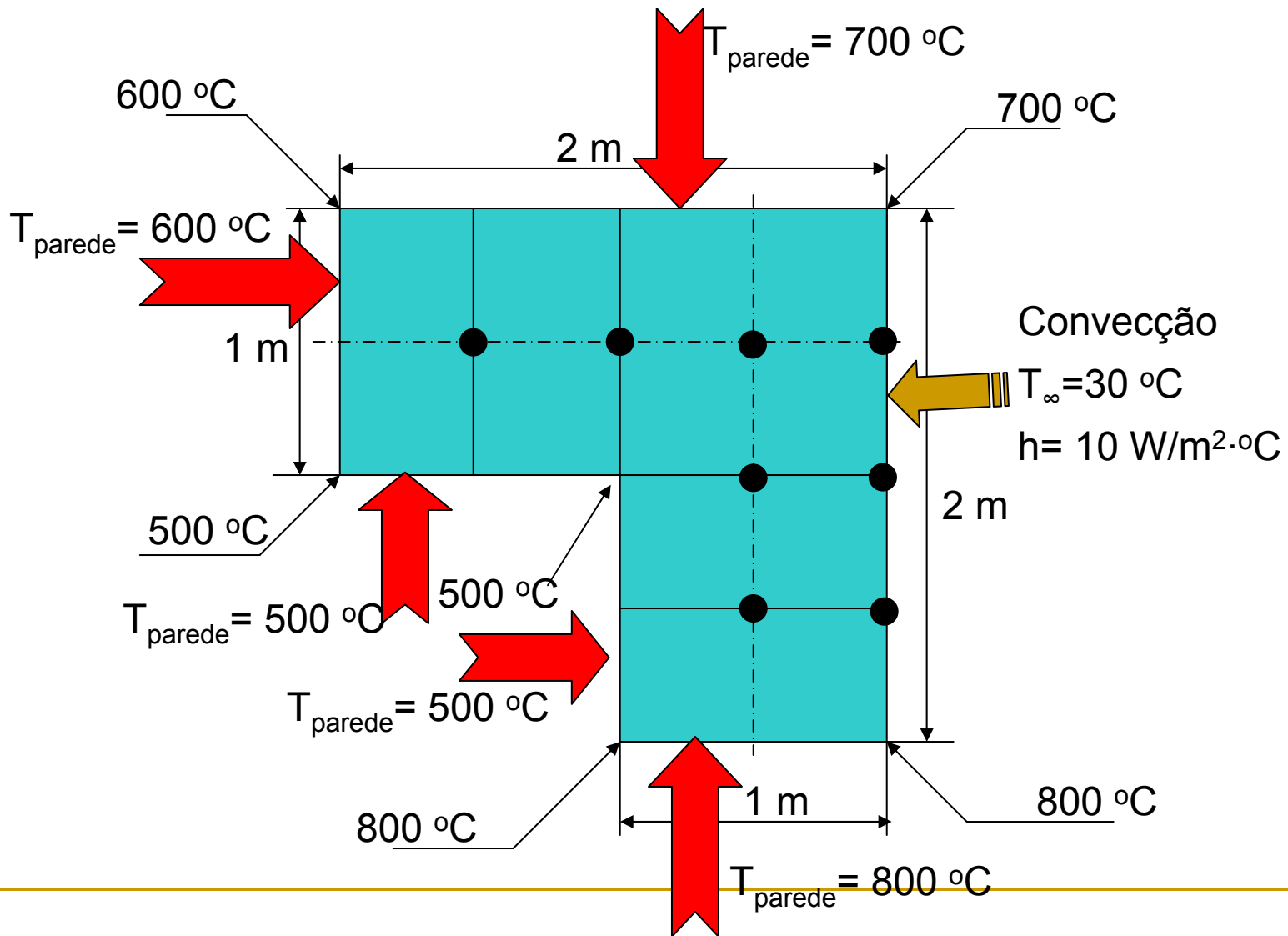
Problema III

- Calcular as temperaturas dos nós assinalados a preto para uma placa de prata com as dimensões apresentadas na figura e as seguintes características:
 - Coeficiente de condutibilidade térmica 429 W/mk
 - Densidade 10500 kg/m³
 - Calor específico 235 J/kgK
- Variantes 21,22,23,24,25,26,27,28,29,30.

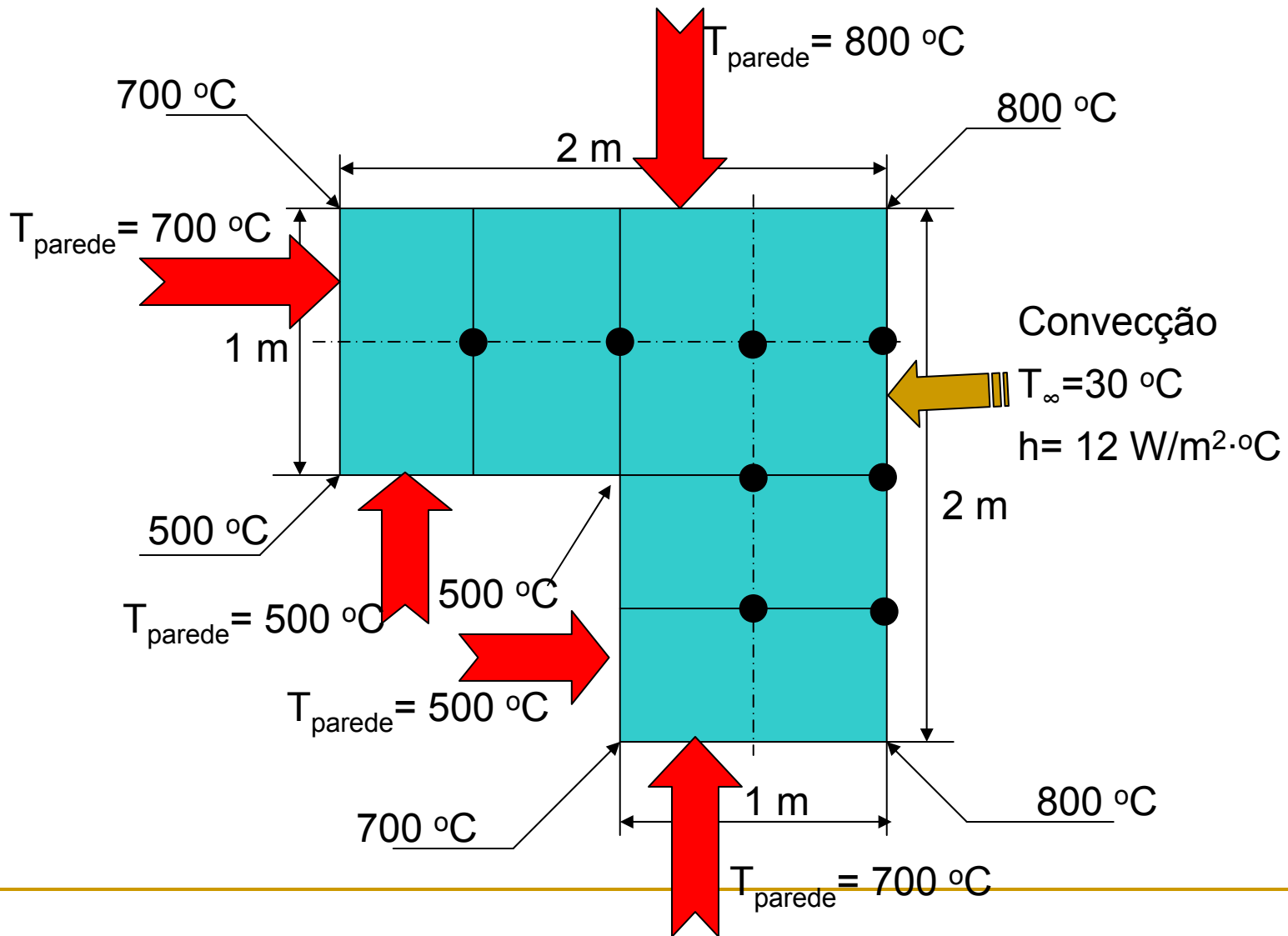
Variante 21



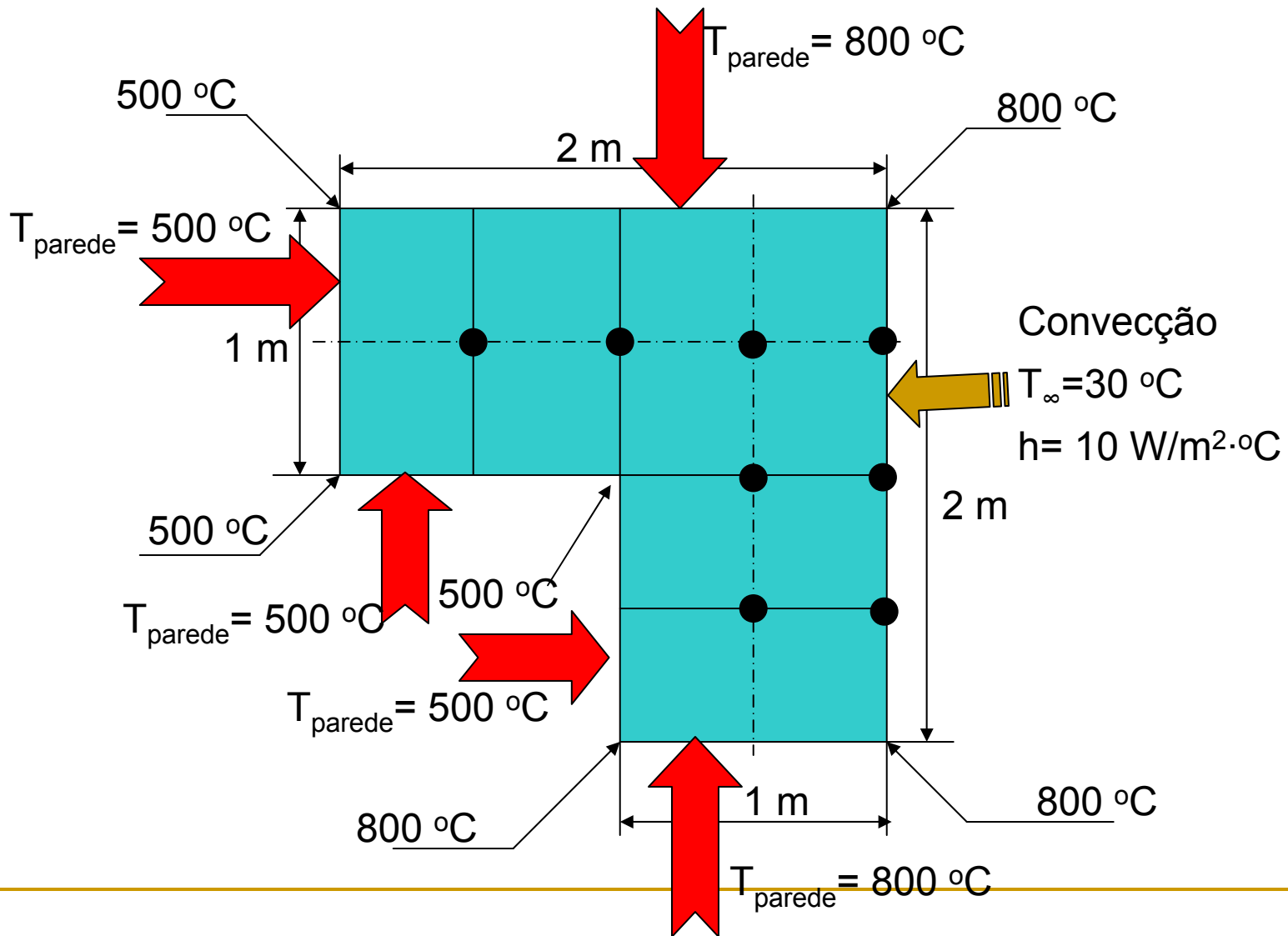
Variante 22



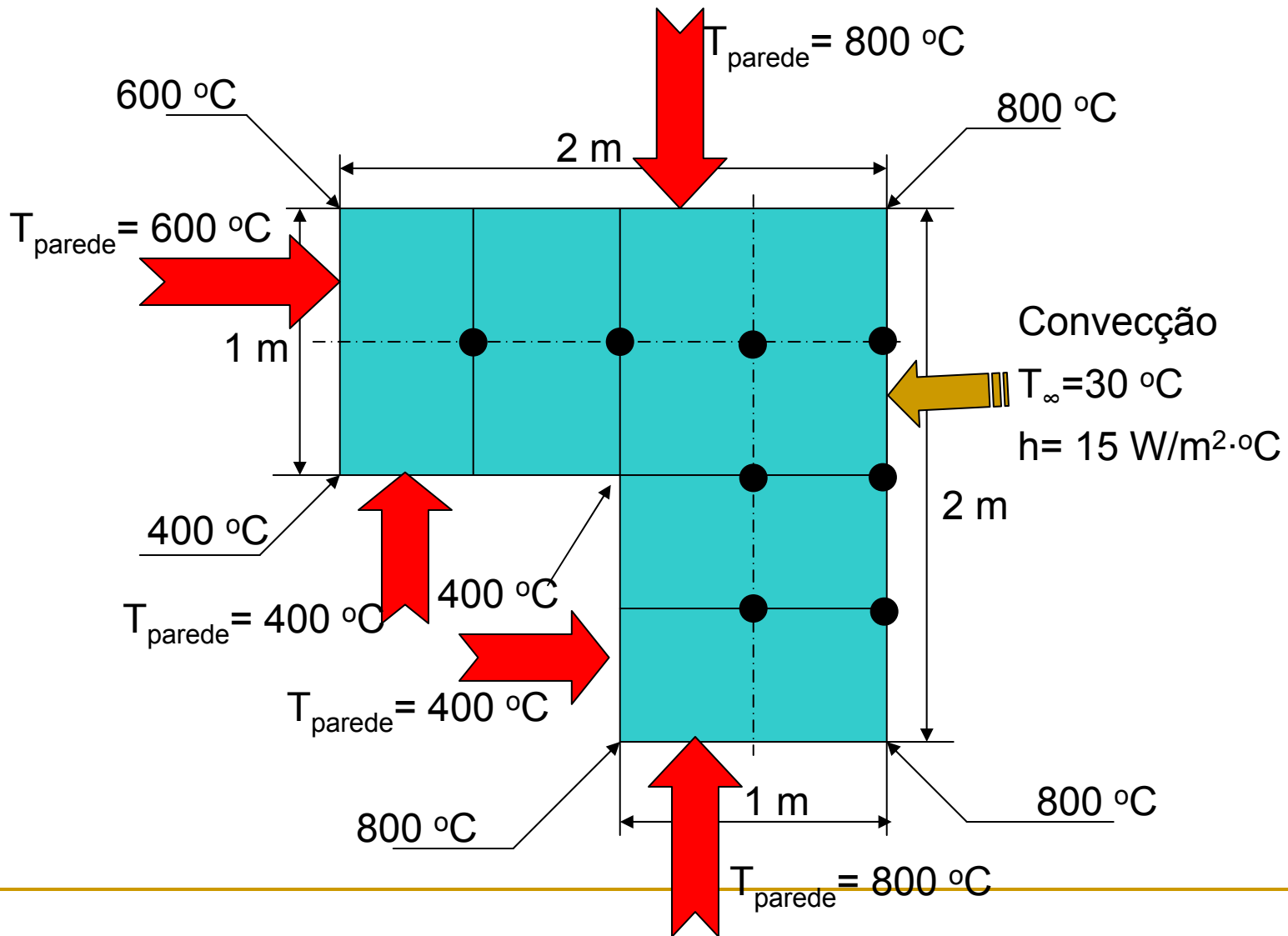
Variante 23



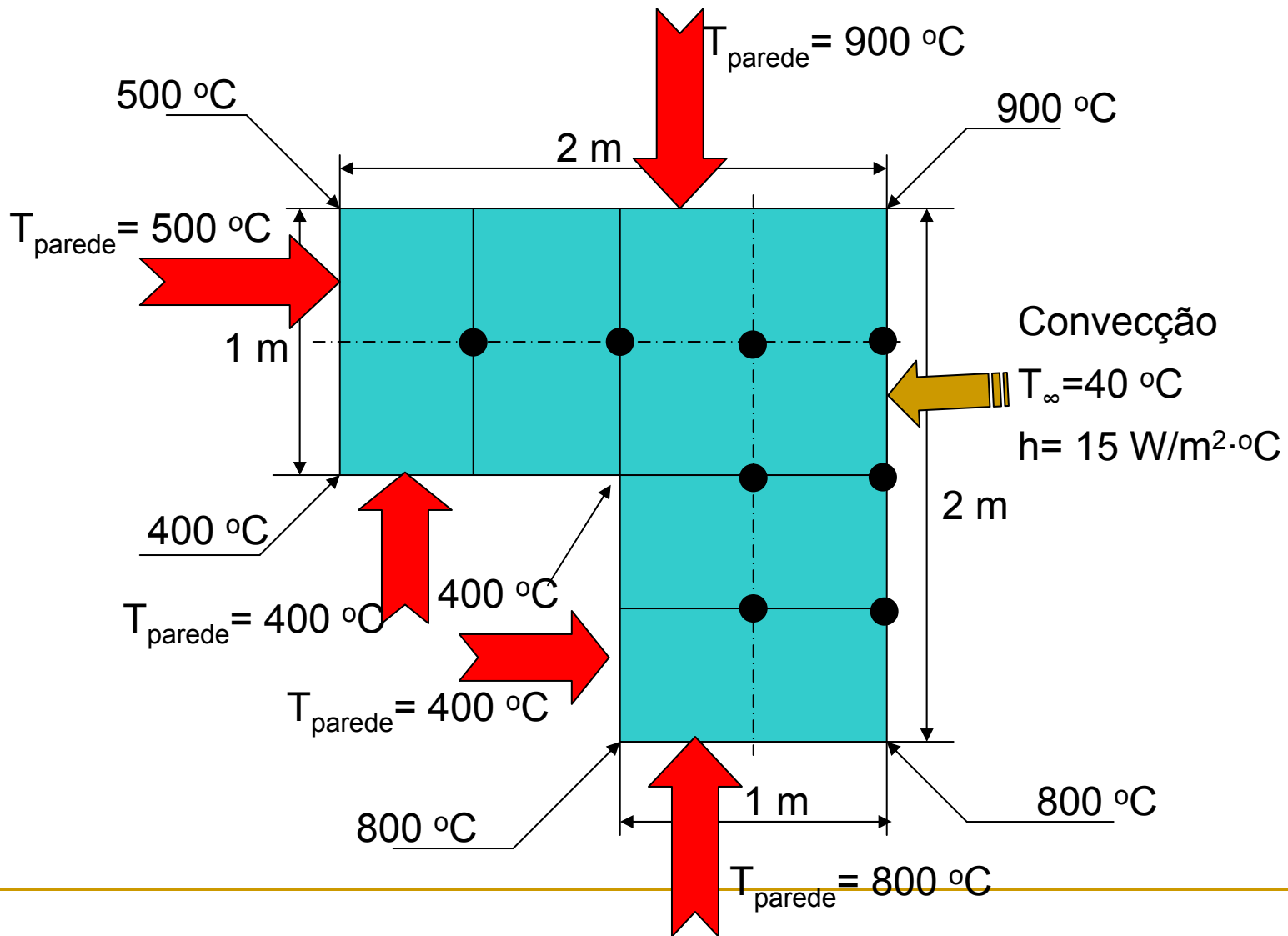
Variante 24



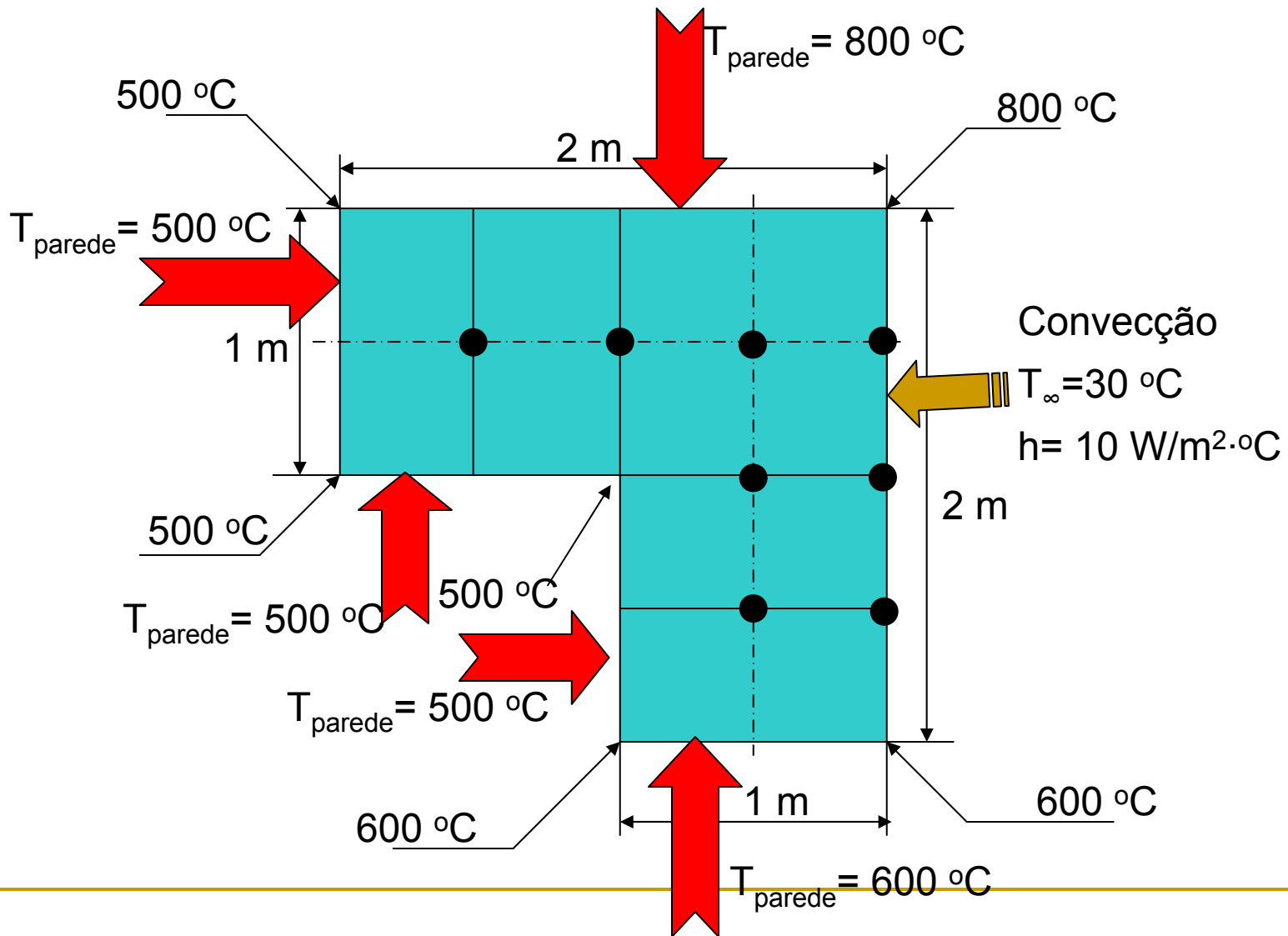
Variante 25



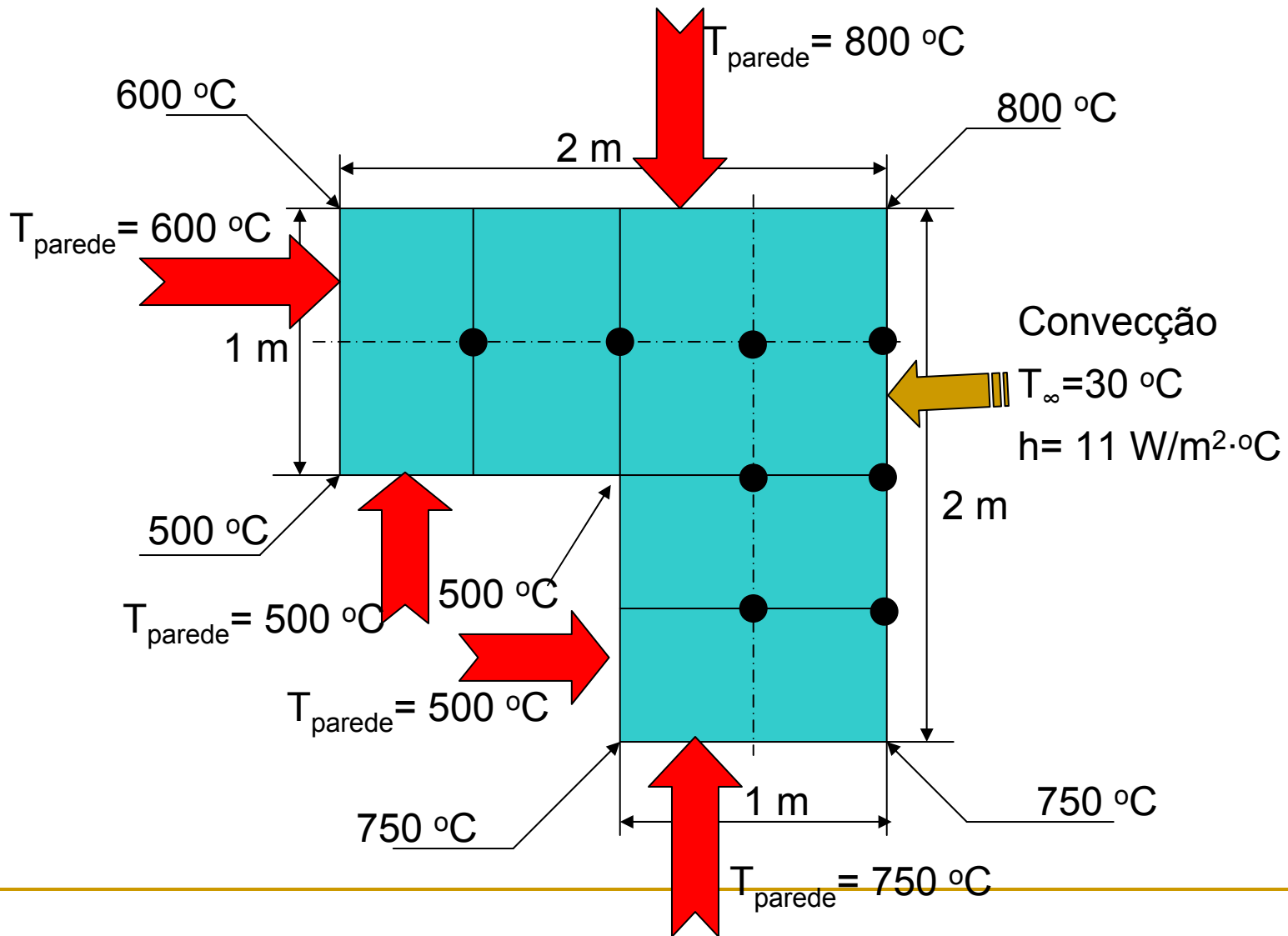
Variante 26



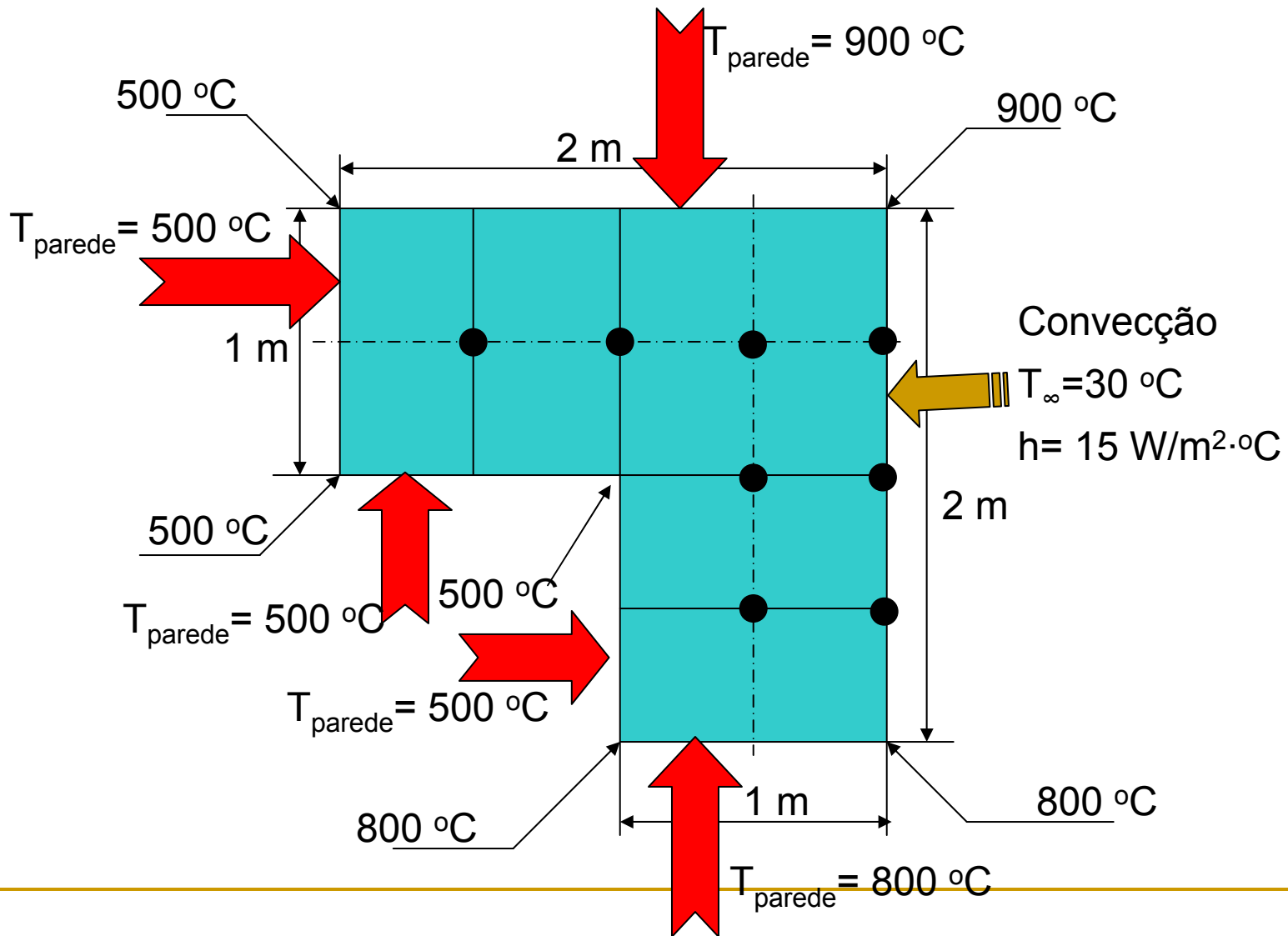
Variante 27



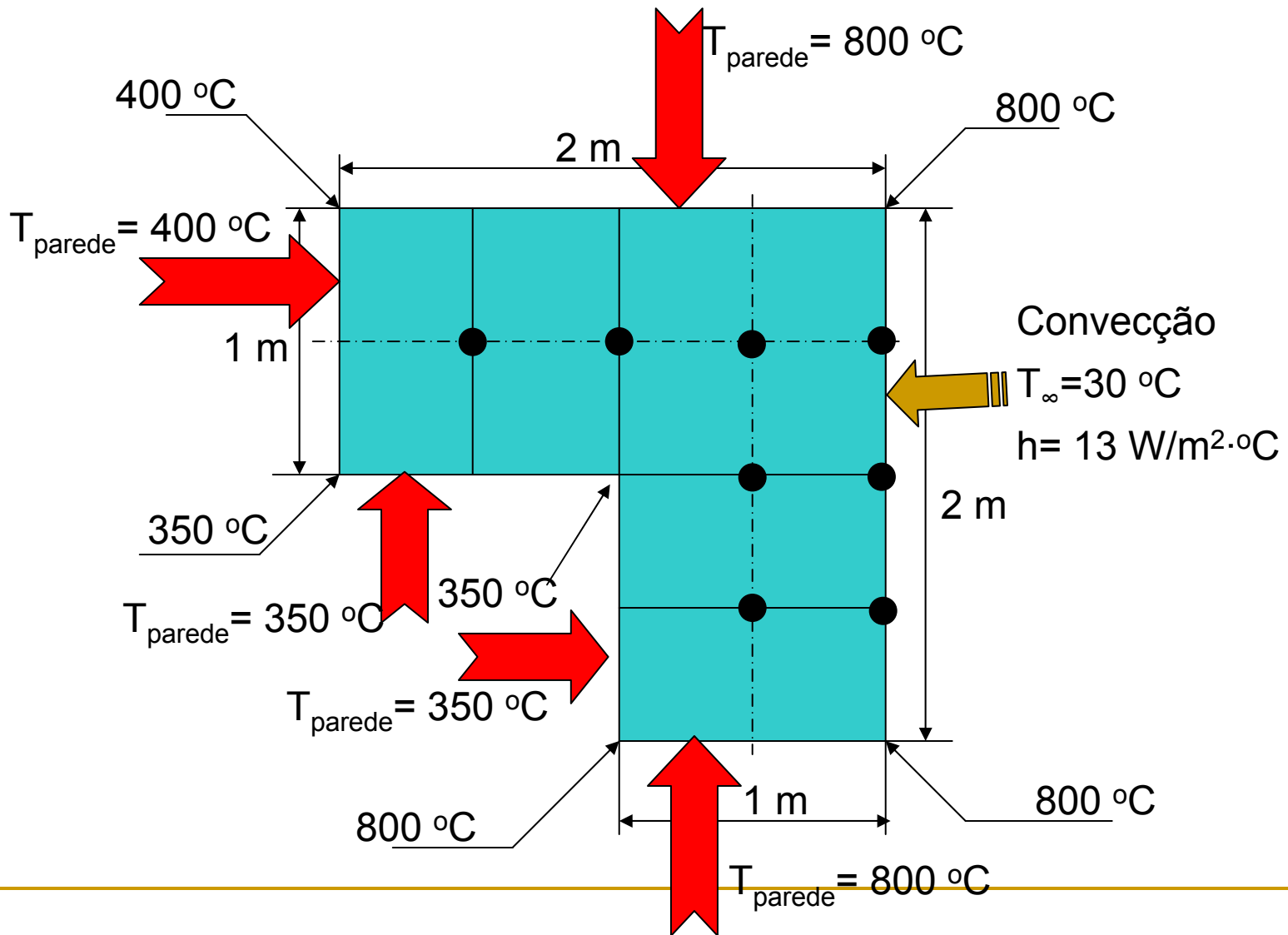
Variante 28



Variante 29



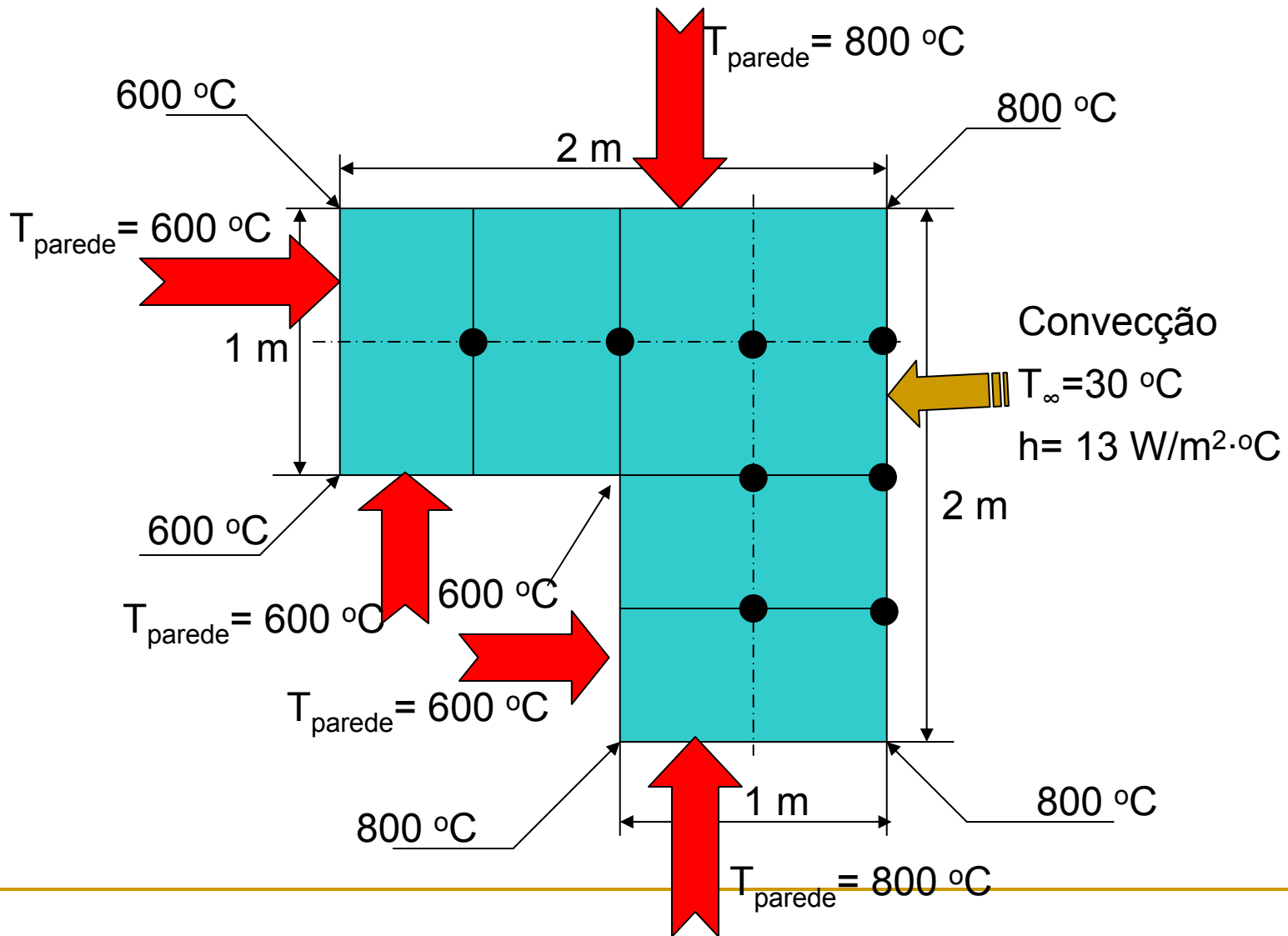
Variante 30



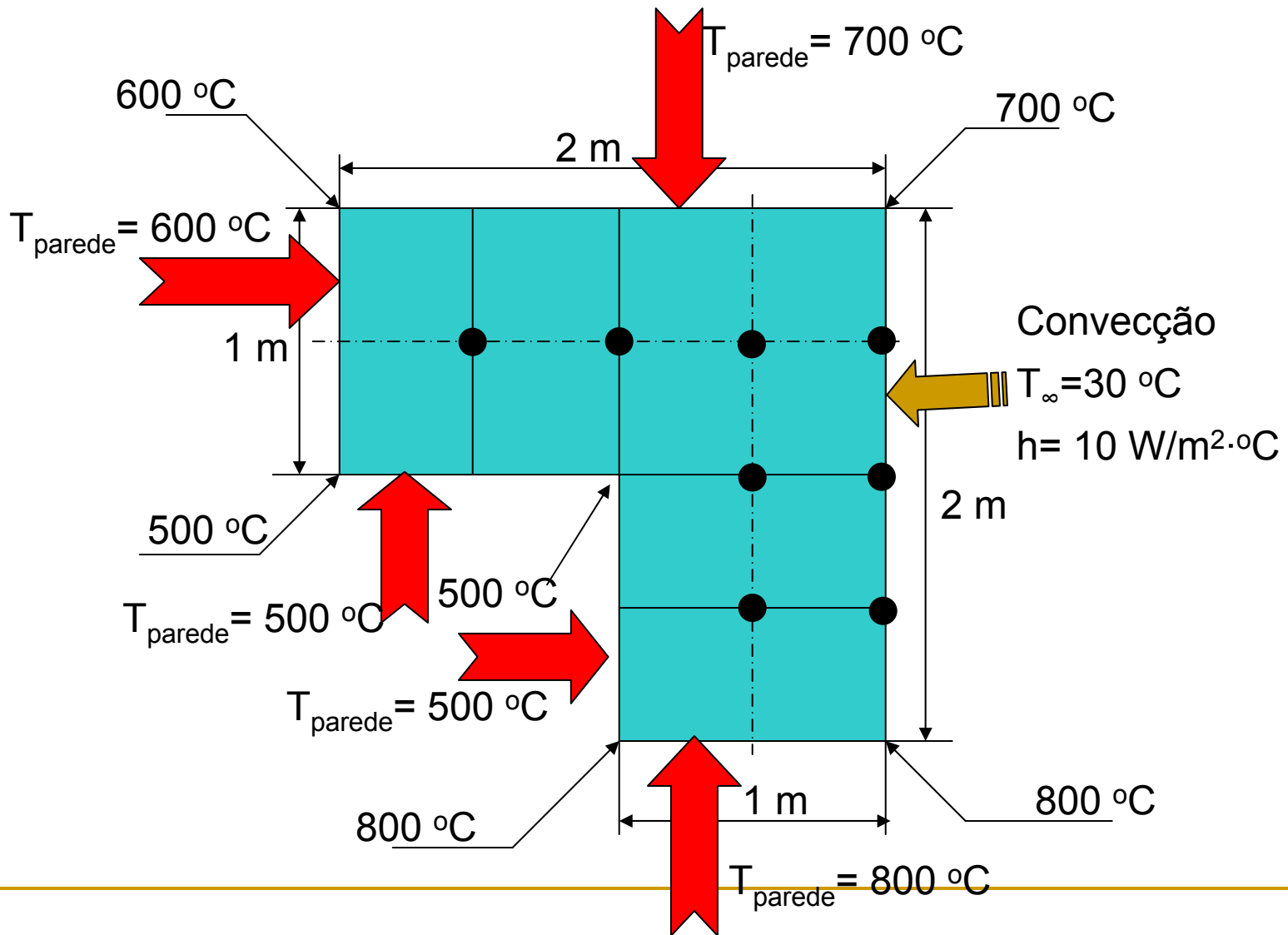
Problema IV

- Calcular as temperaturas dos nós assinalados a preto para uma placa de aço com as dimensões apresentadas na figura e as seguintes características:
 - Coeficiente de condutibilidade térmica $60,5 \text{ W/mk}$
 - Densidade 7854 kg/m^3
 - Calor específico 434 J/kgK
- Variantes 31,32,33,34,35,36,37,38,39,40.

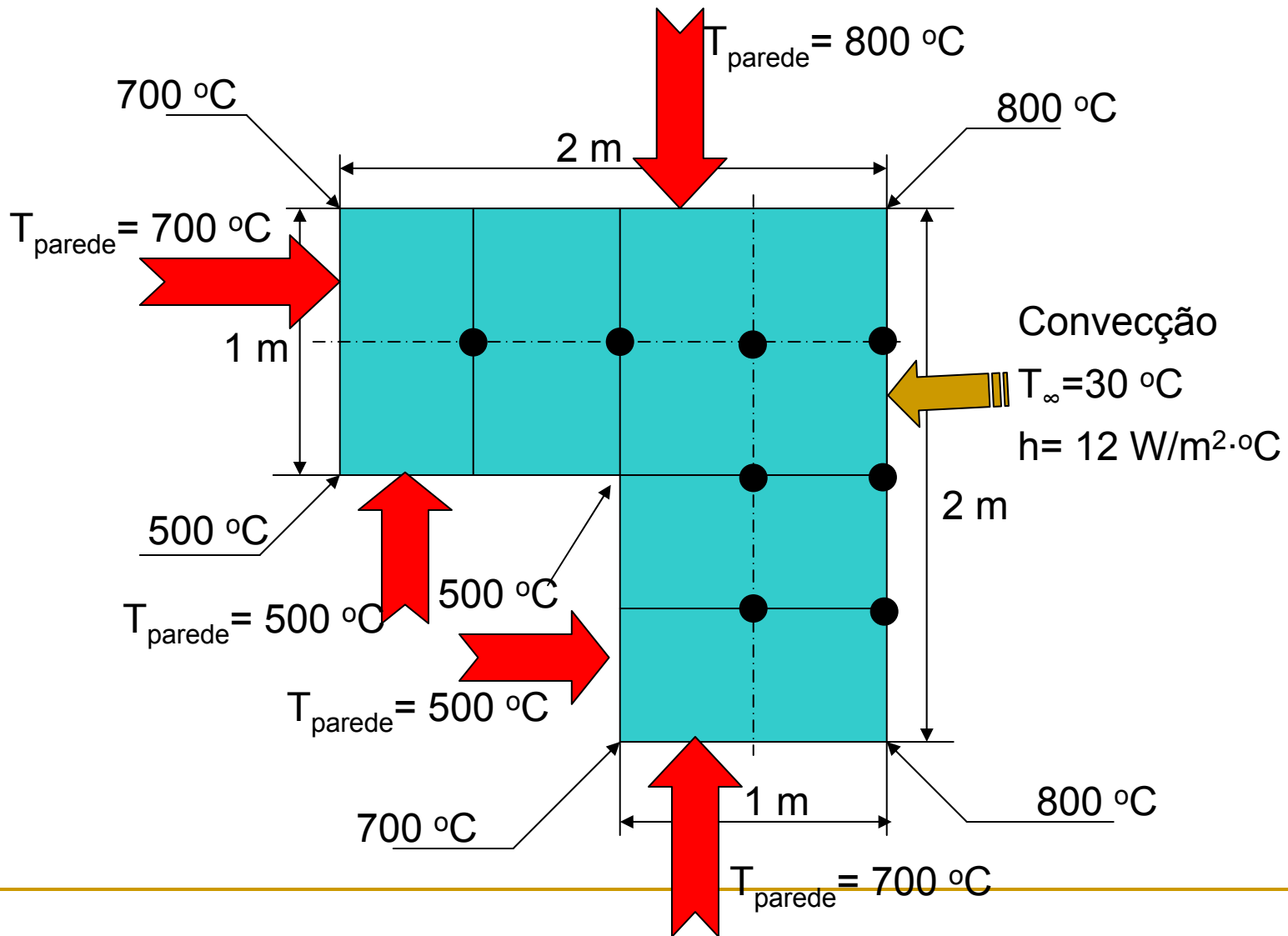
Variante 31



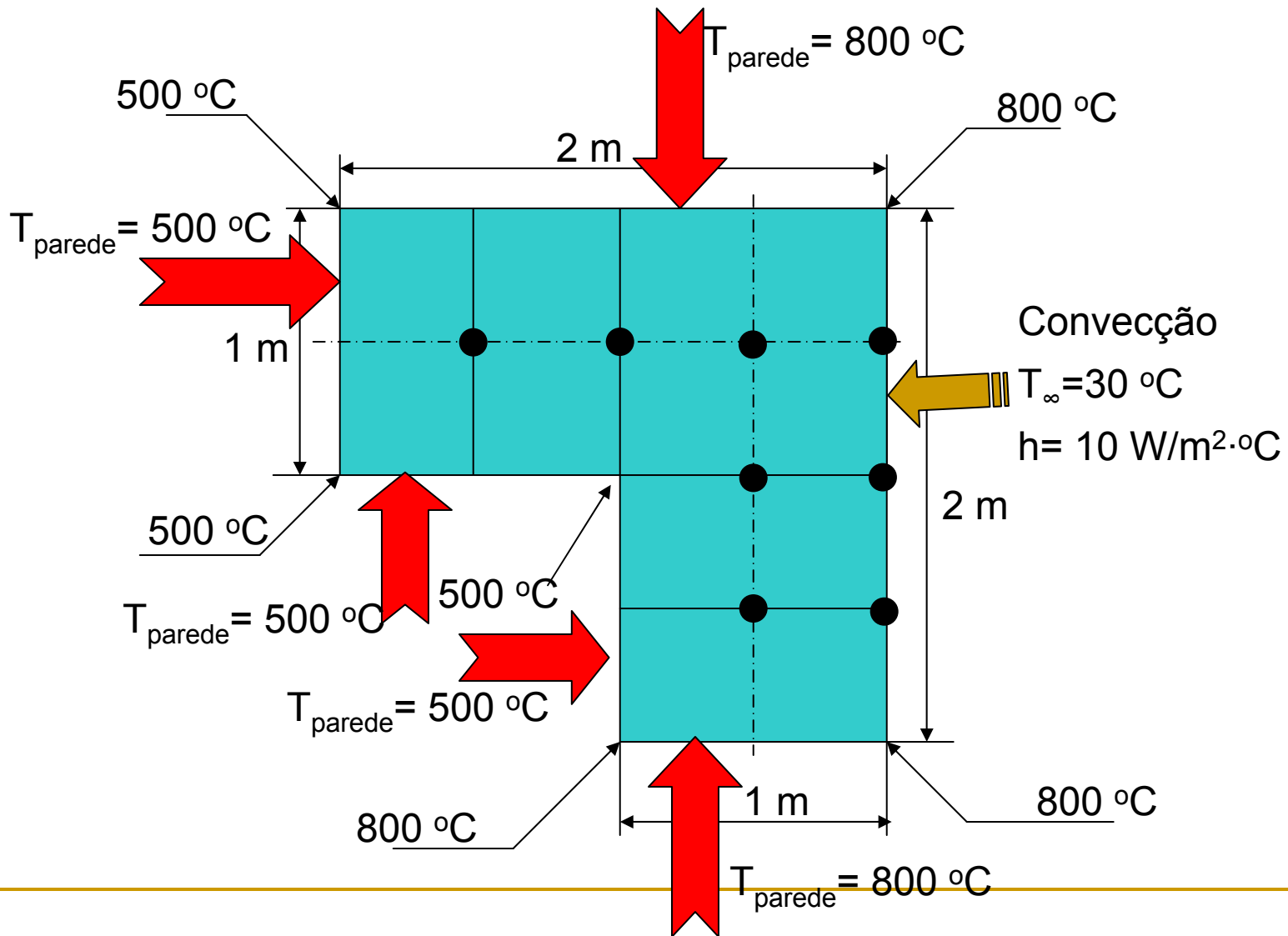
Variante 32



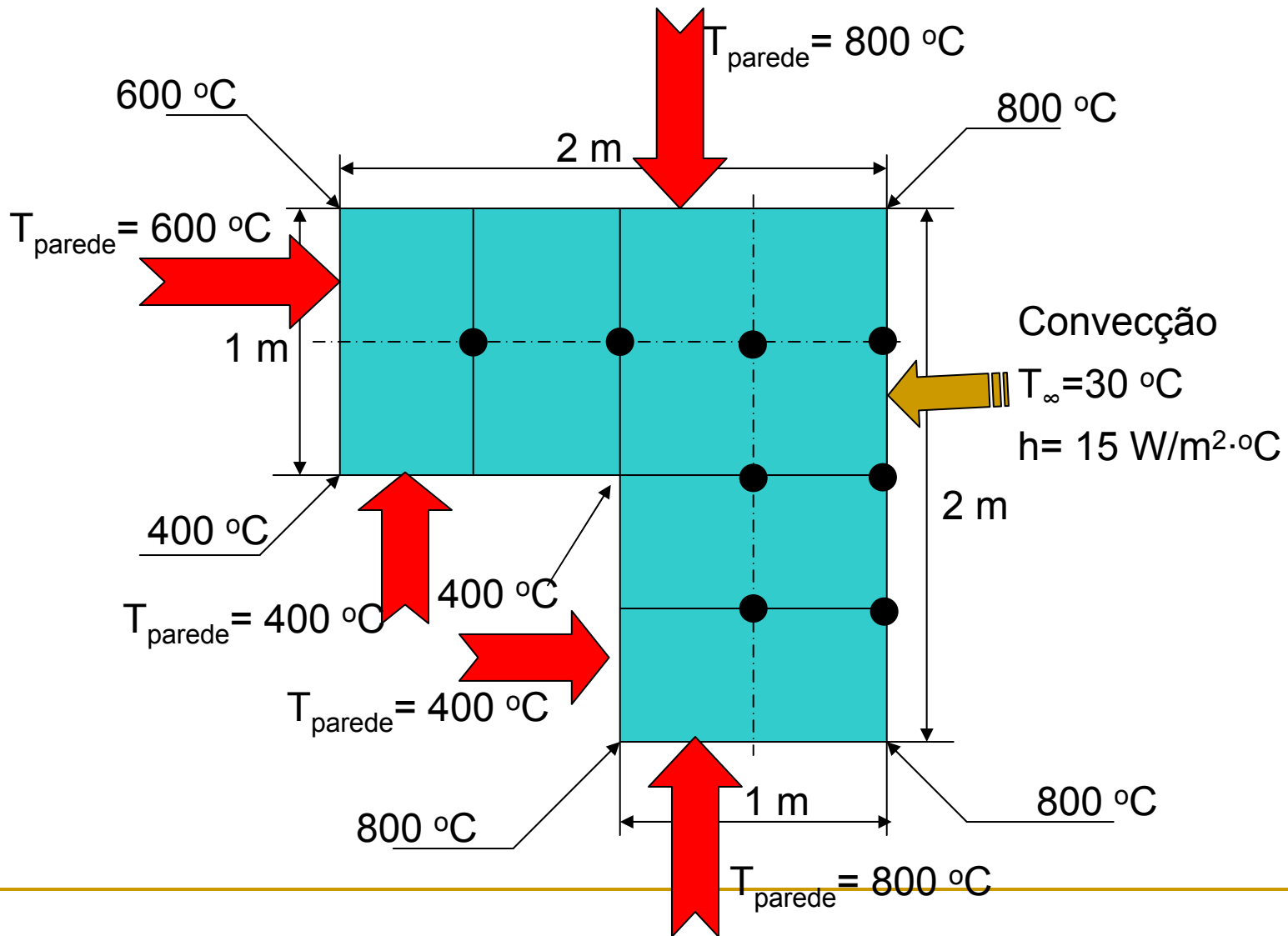
Variante 33



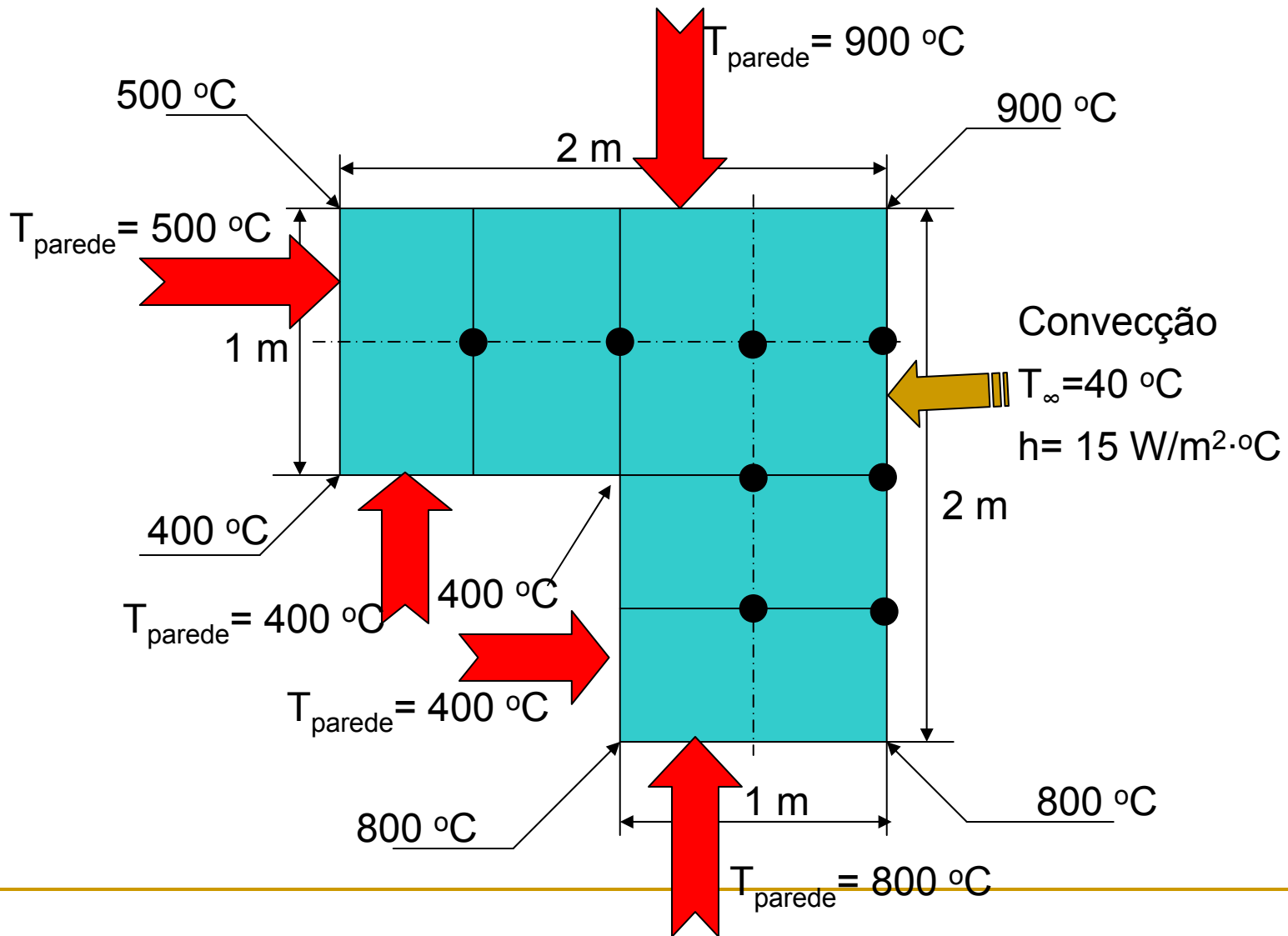
Variante 34



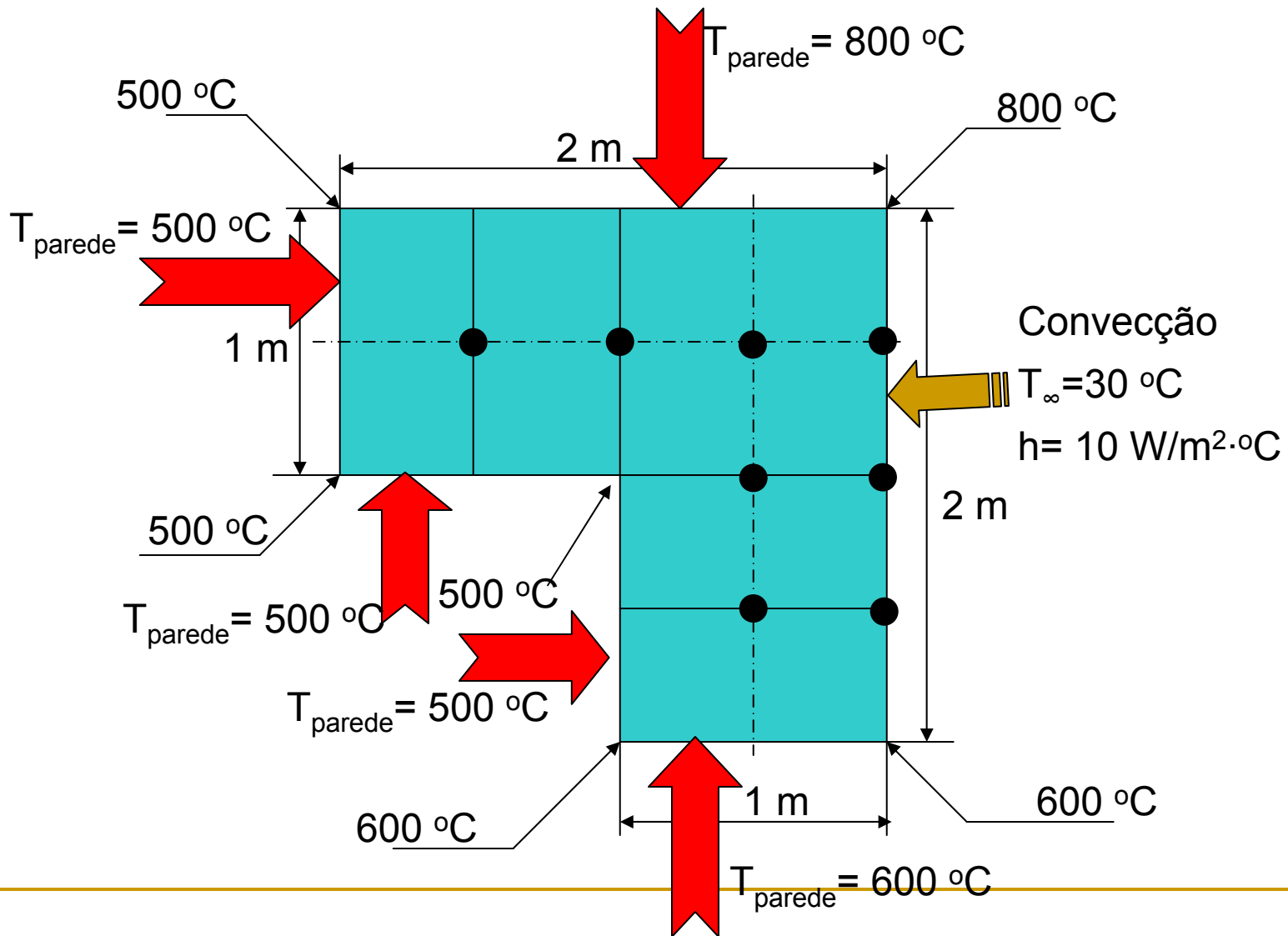
Variante 35



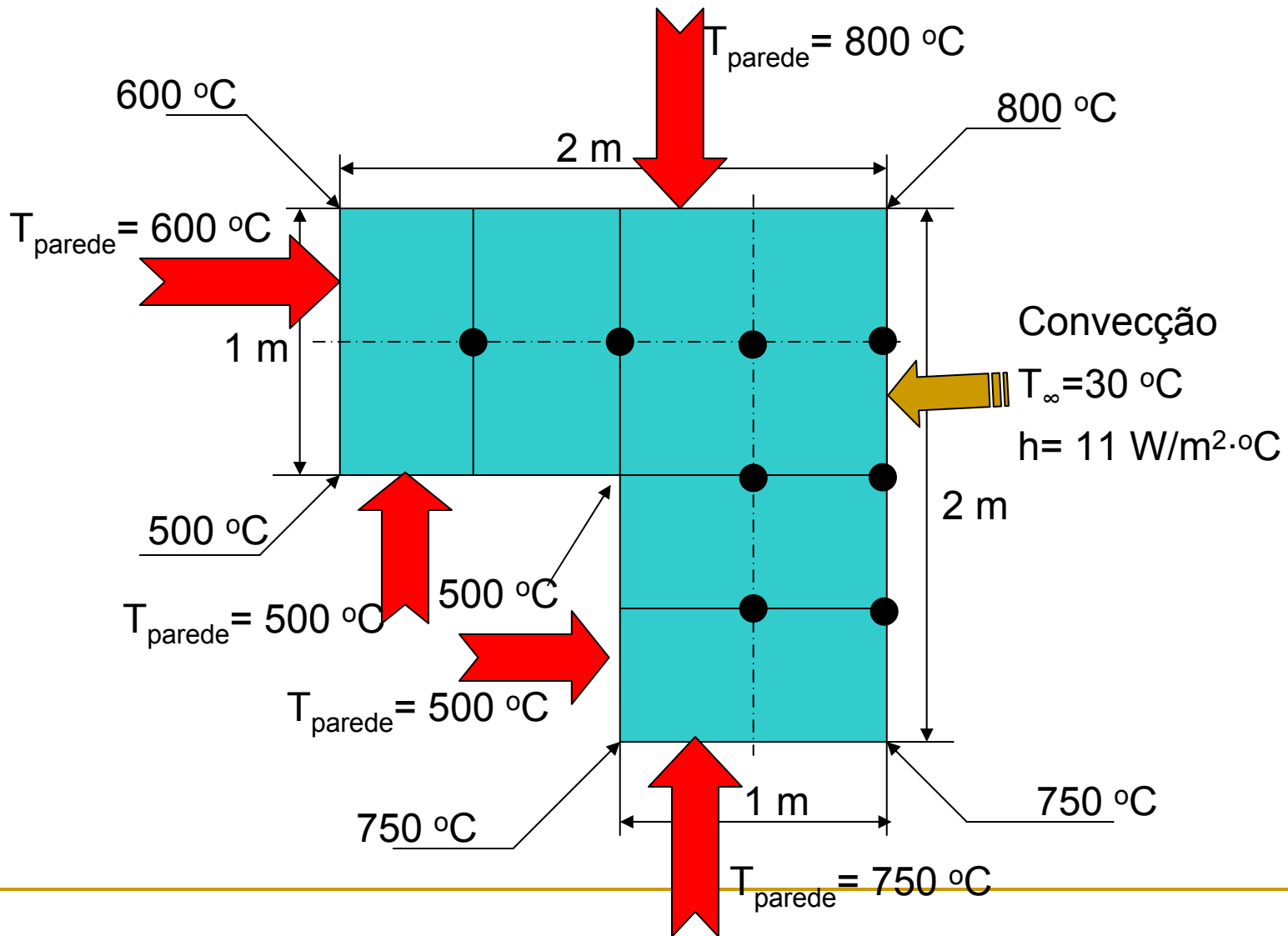
Variante 36



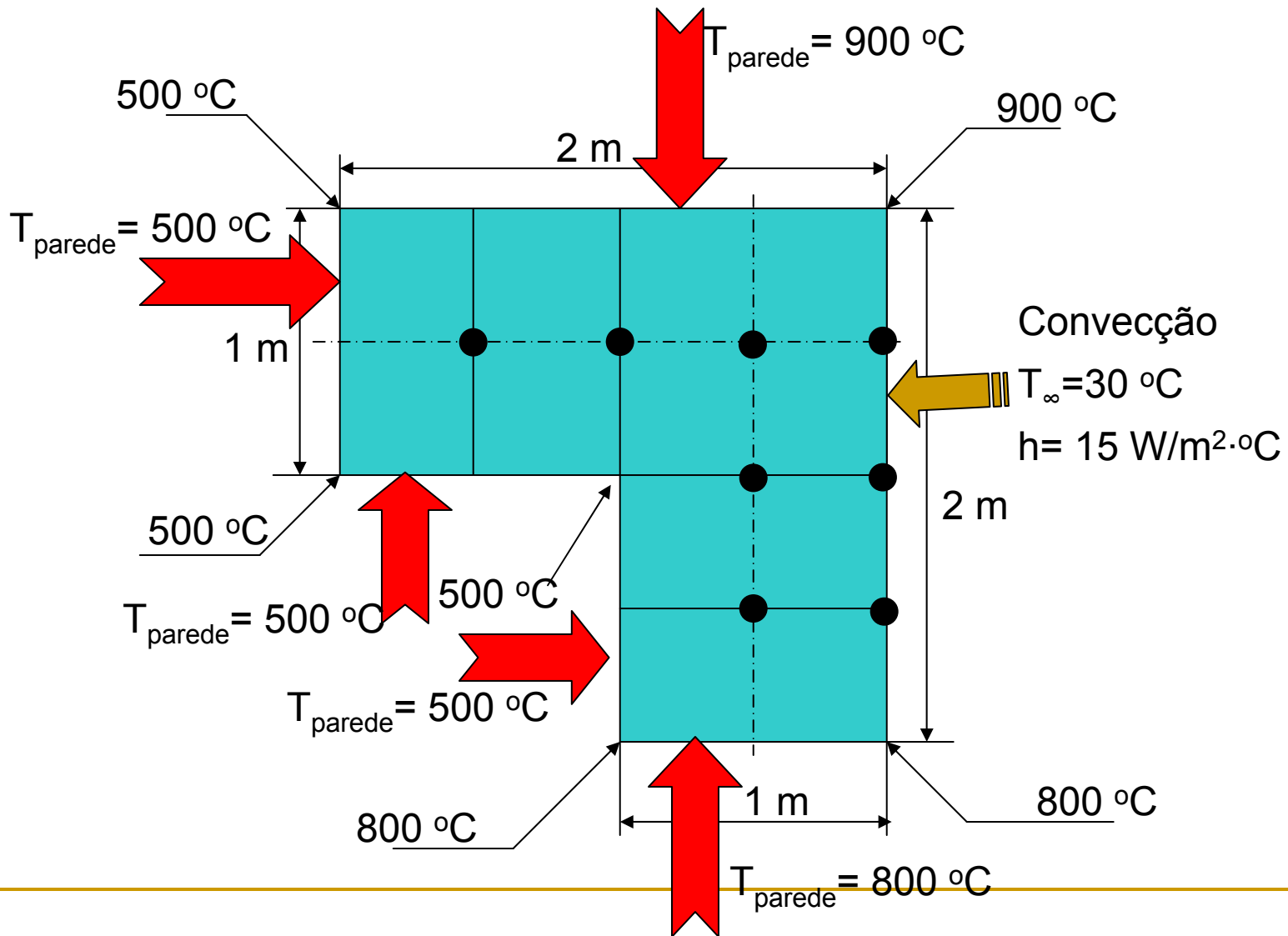
Variante 37



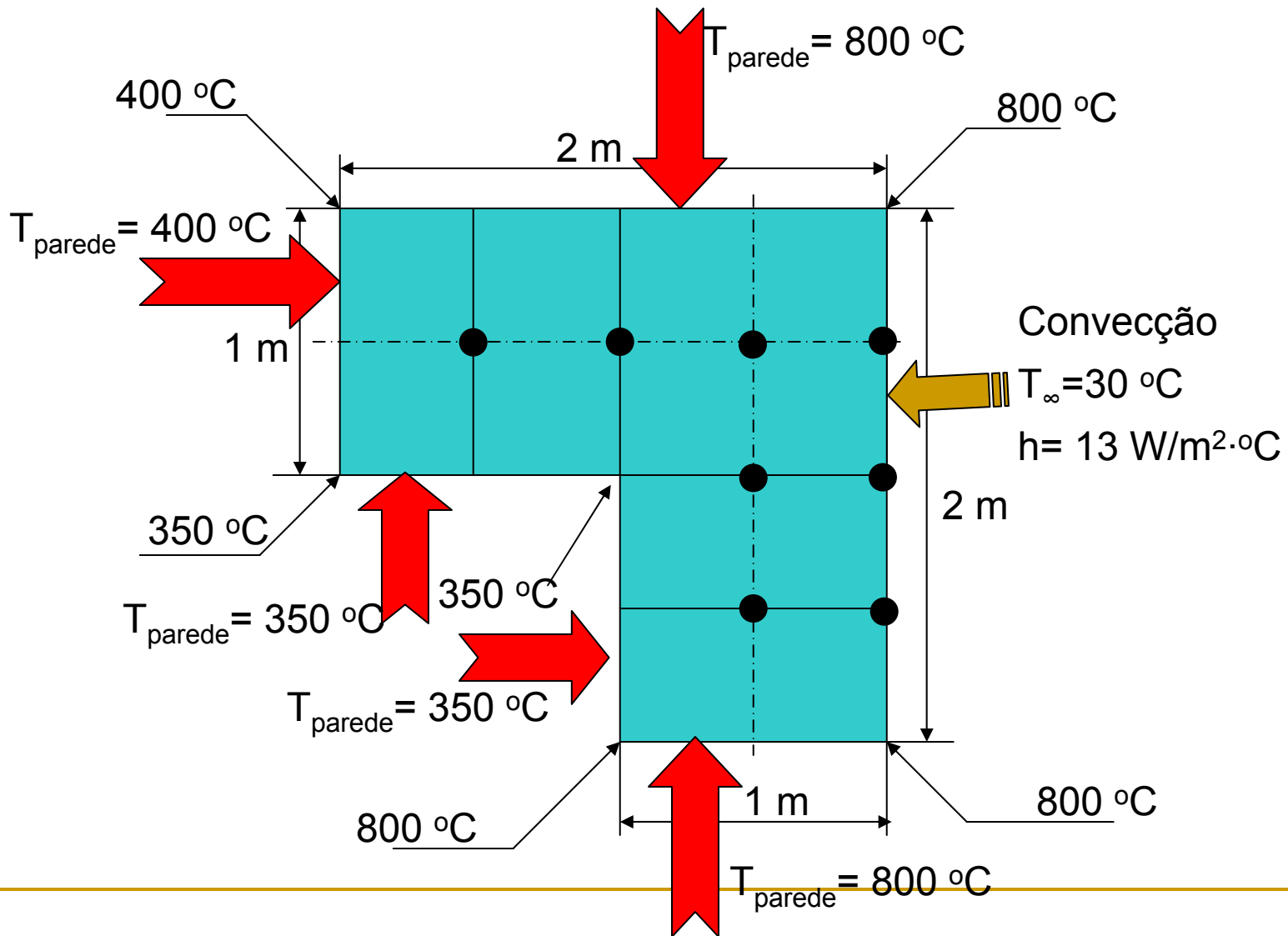
Variante 38



Variante 39



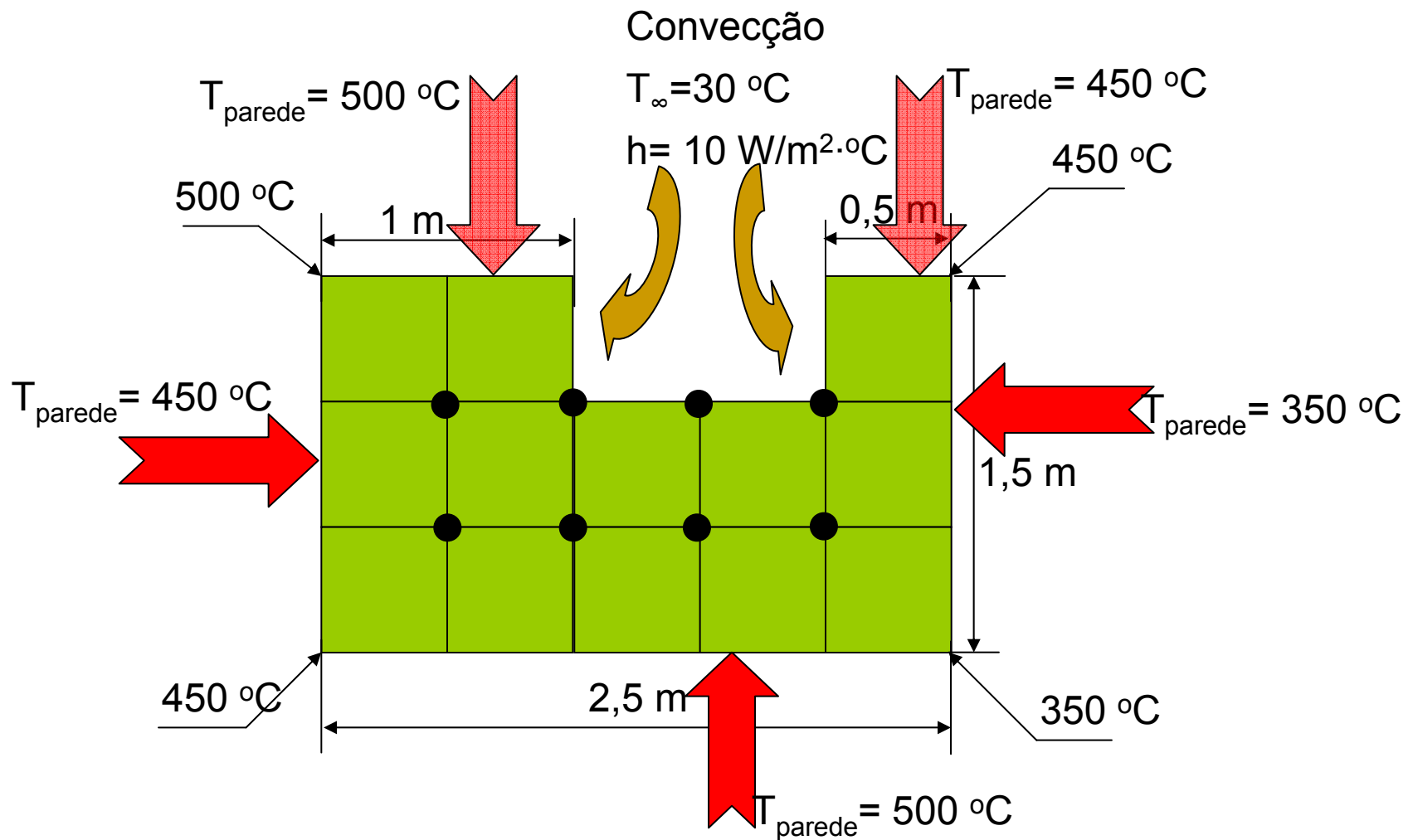
Variante 40



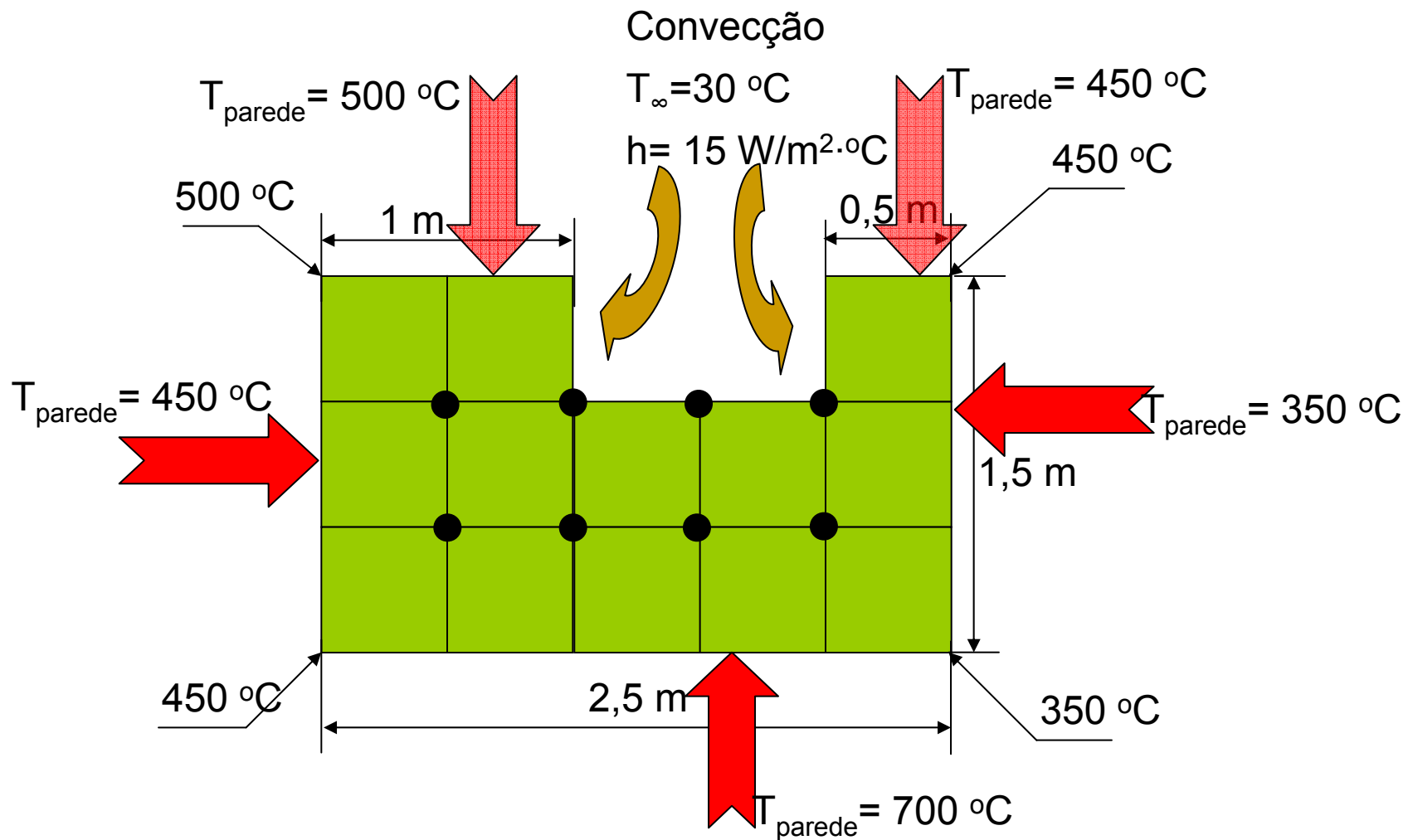
Problema V

- Calcular as temperaturas dos nós assinalados a preto para uma placa de cobre com as dimensões apresentadas na figura e as seguintes características:
 - Coeficiente de condutibilidade térmica 385,9 W/mk
 - Densidade 895,4 kg/m³
 - Calor específico 383,1 J/kgK
- Variantes 41,42,43,44,45,46,47,48,49,50.

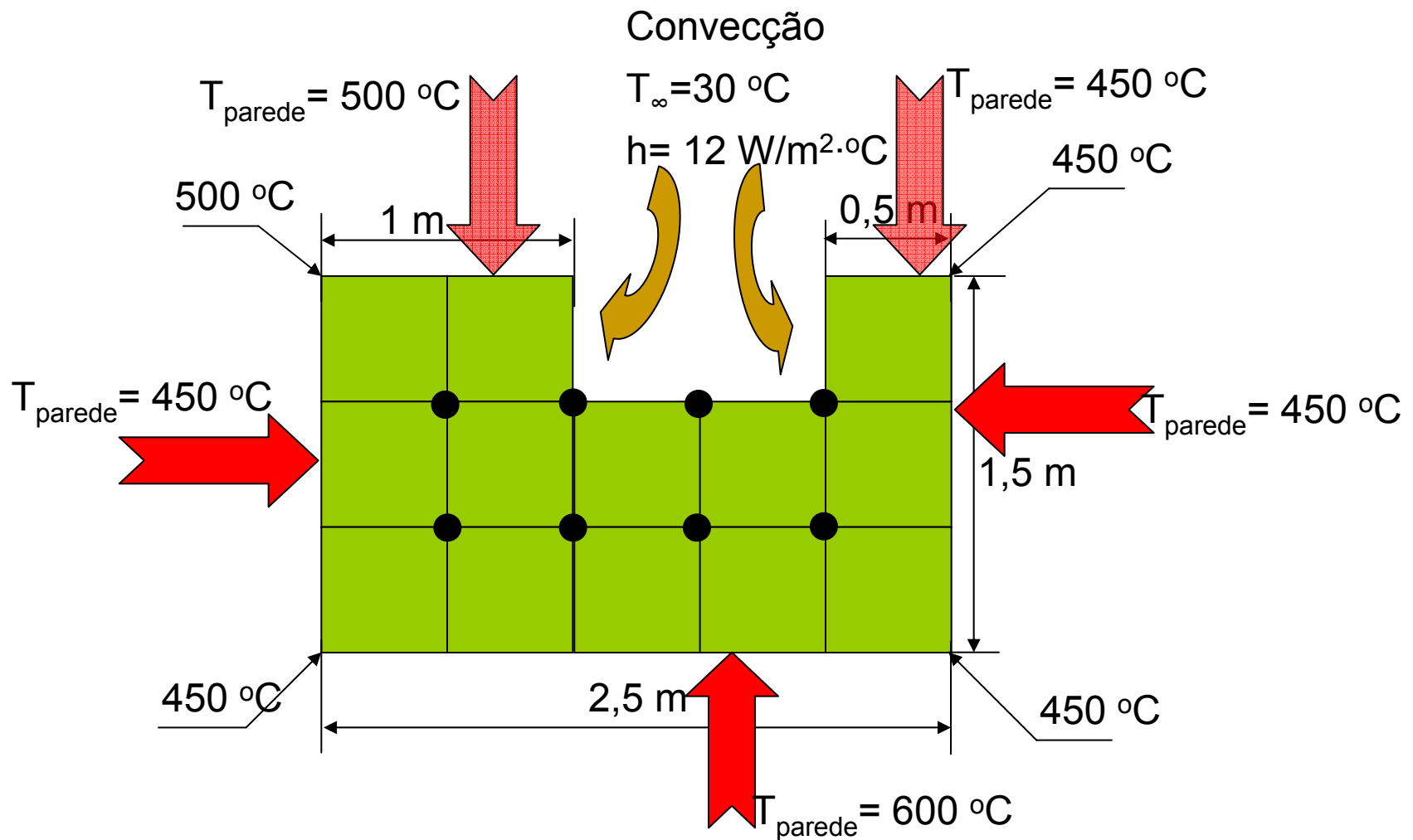
Variante 41



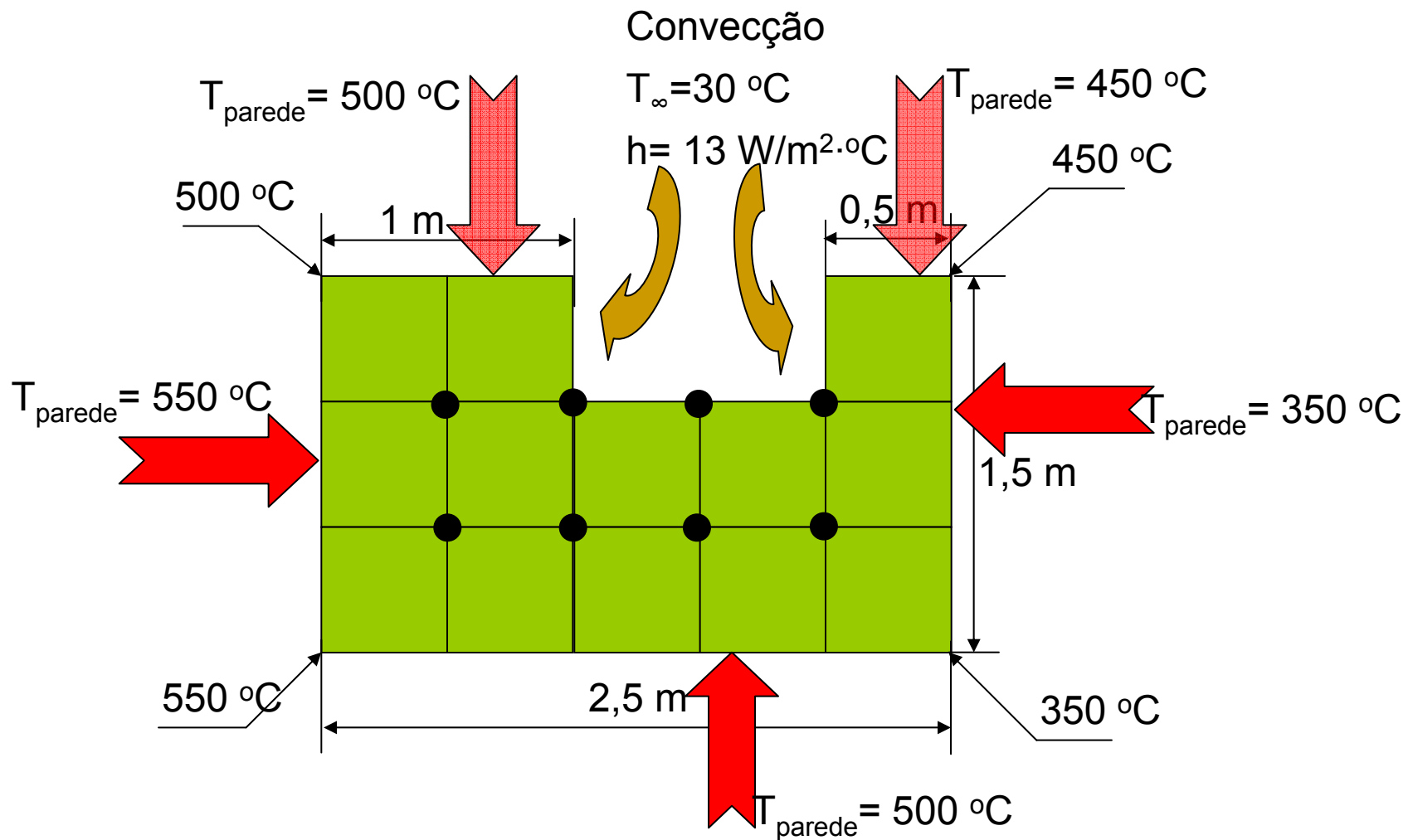
Variante 42



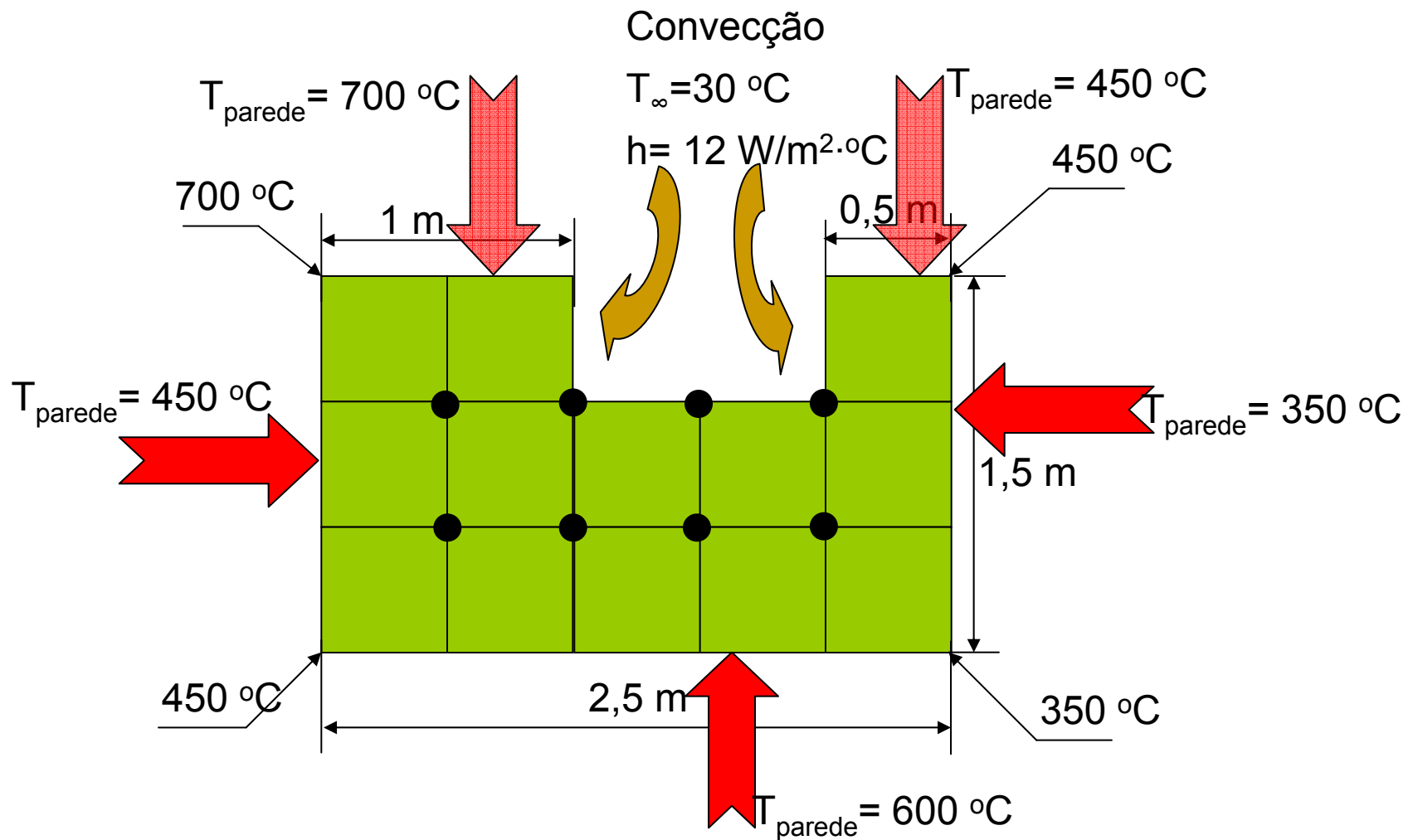
Variante 43



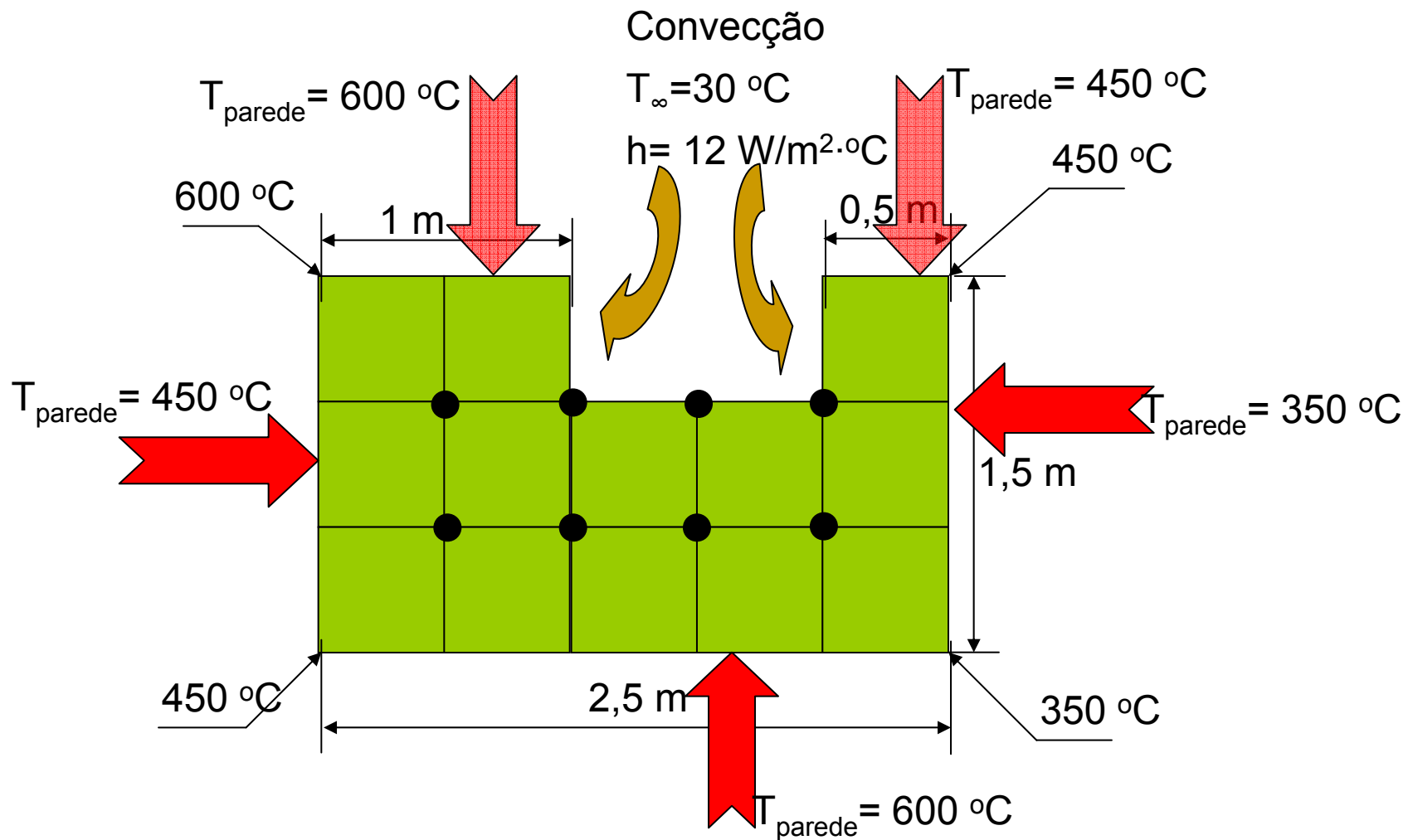
Variante 44



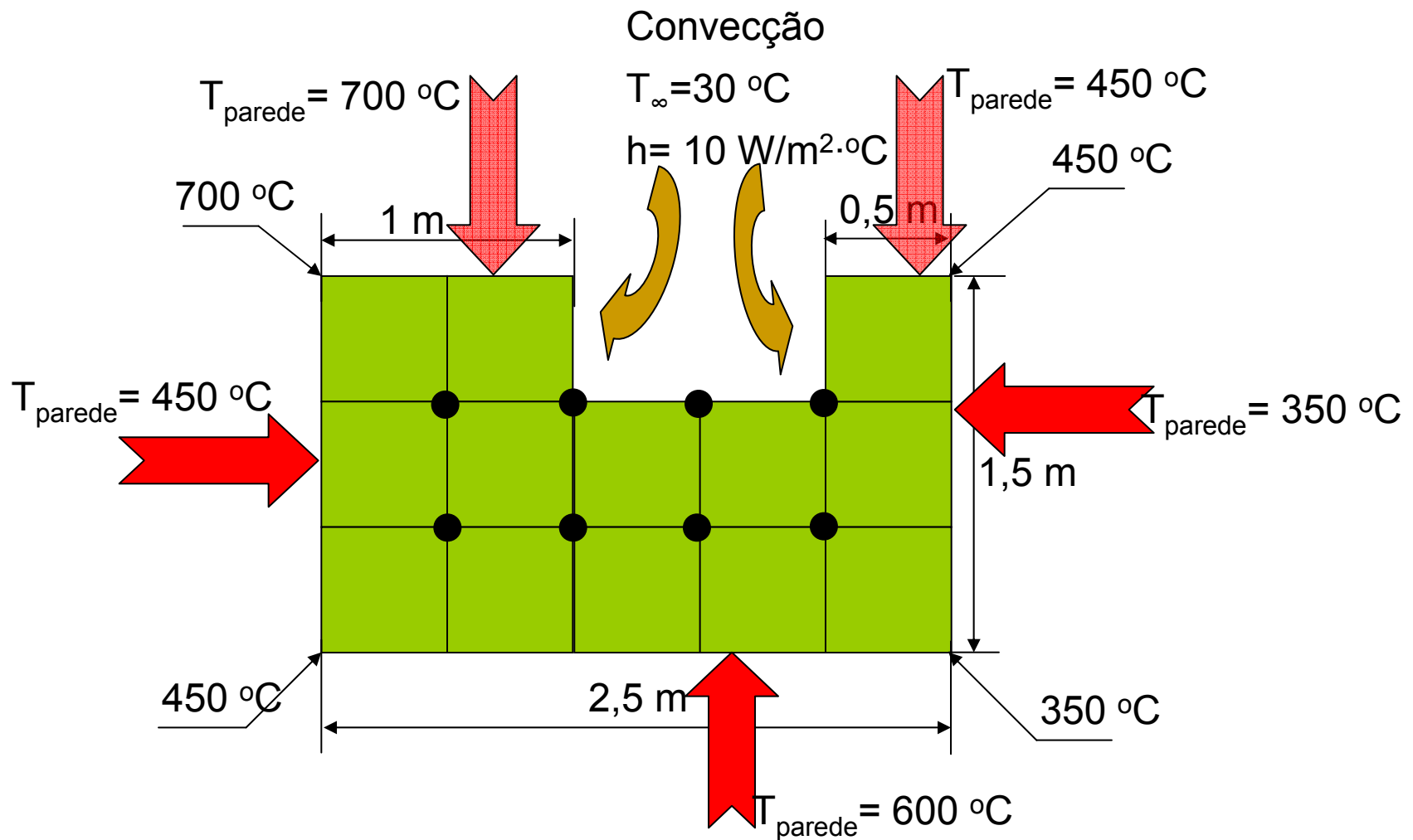
Variante 45



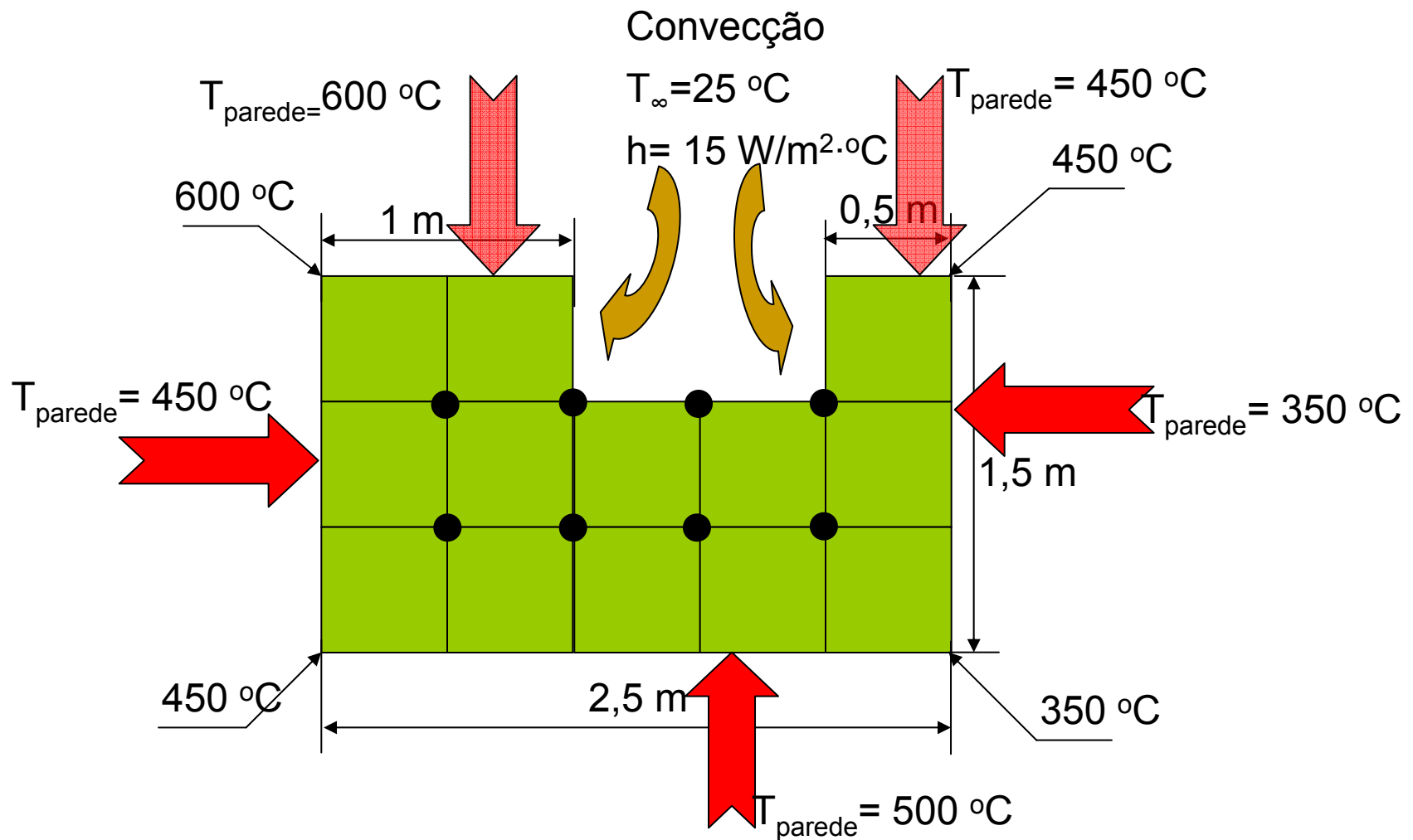
Variante 46



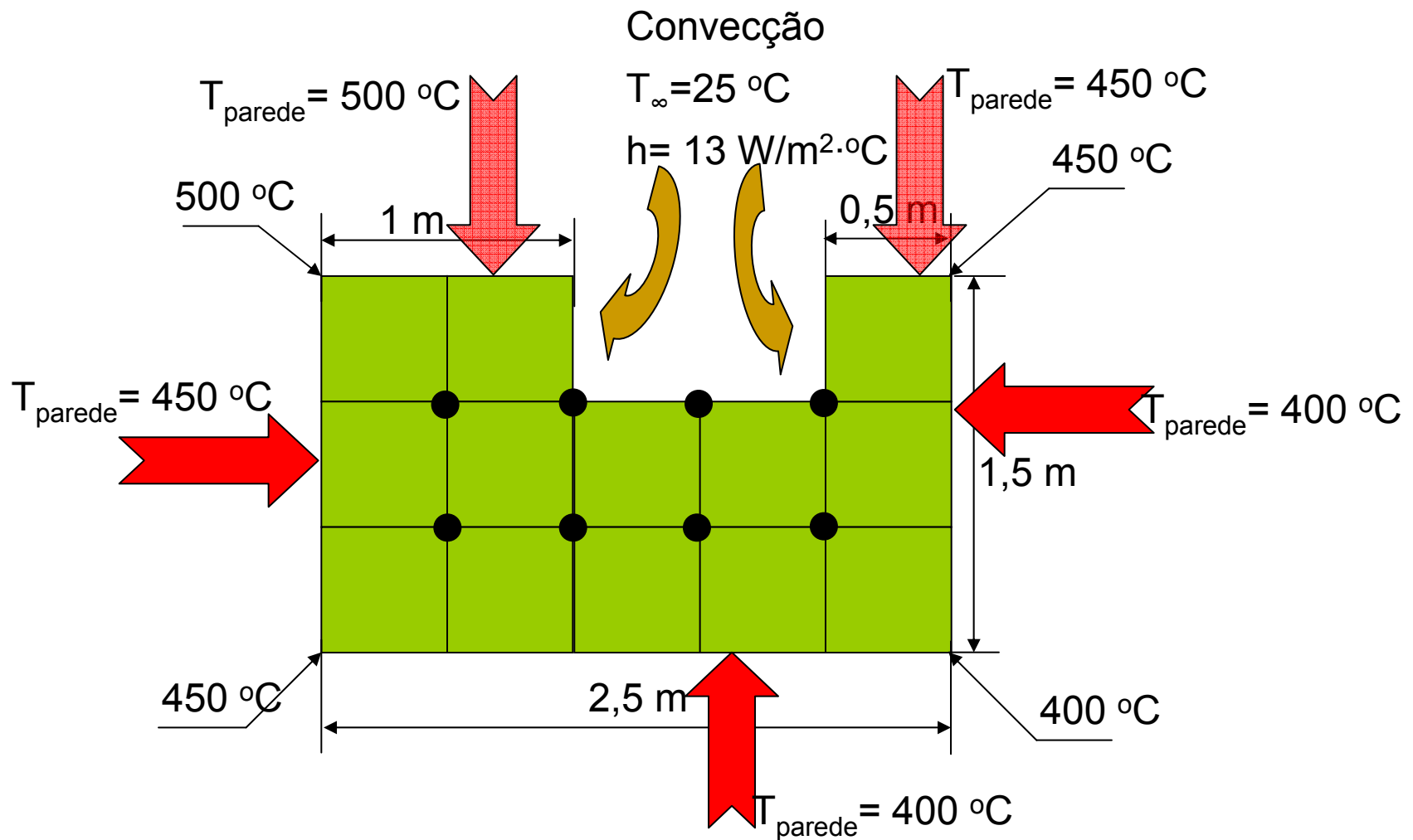
Variante 47



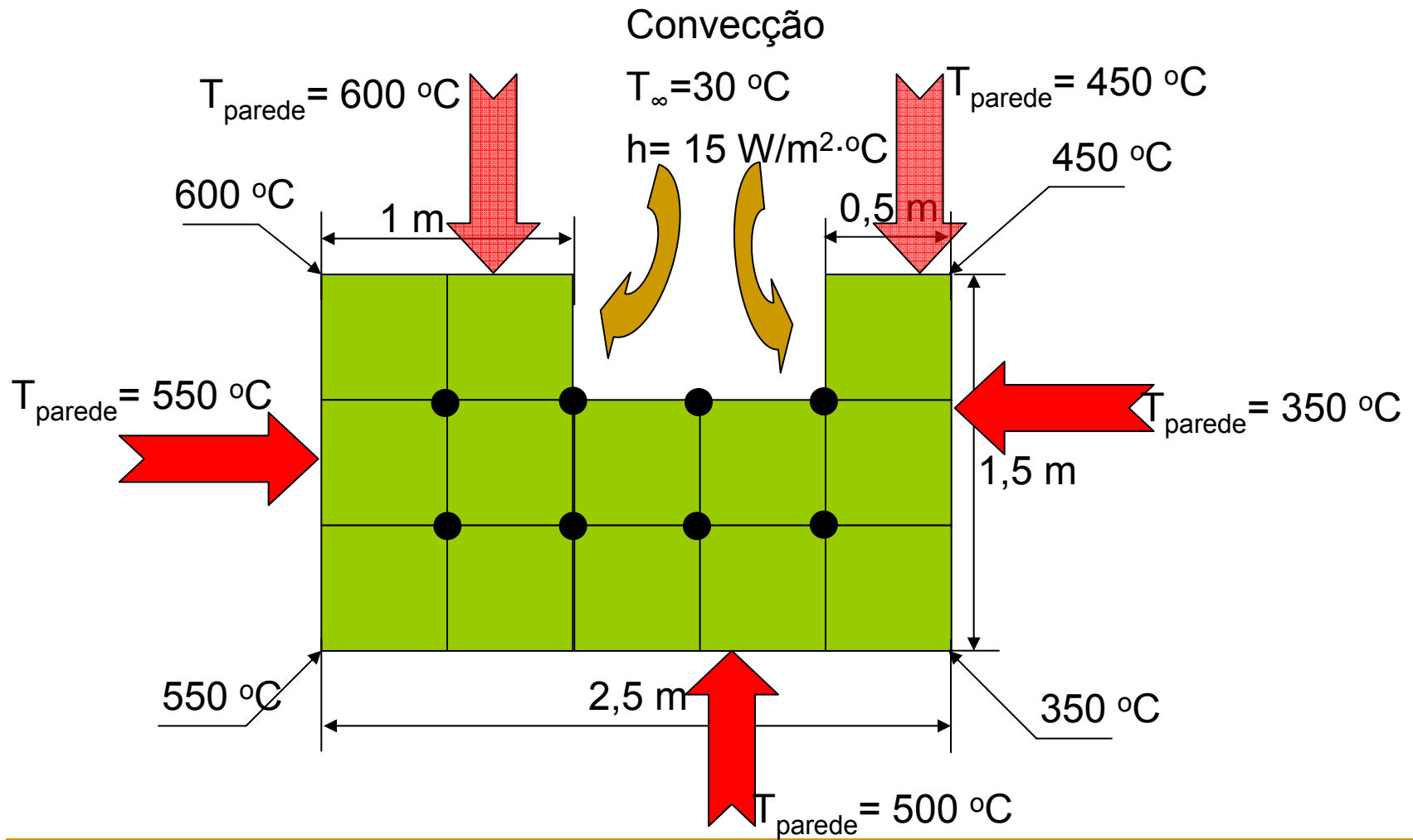
Variante 48



Variante 49



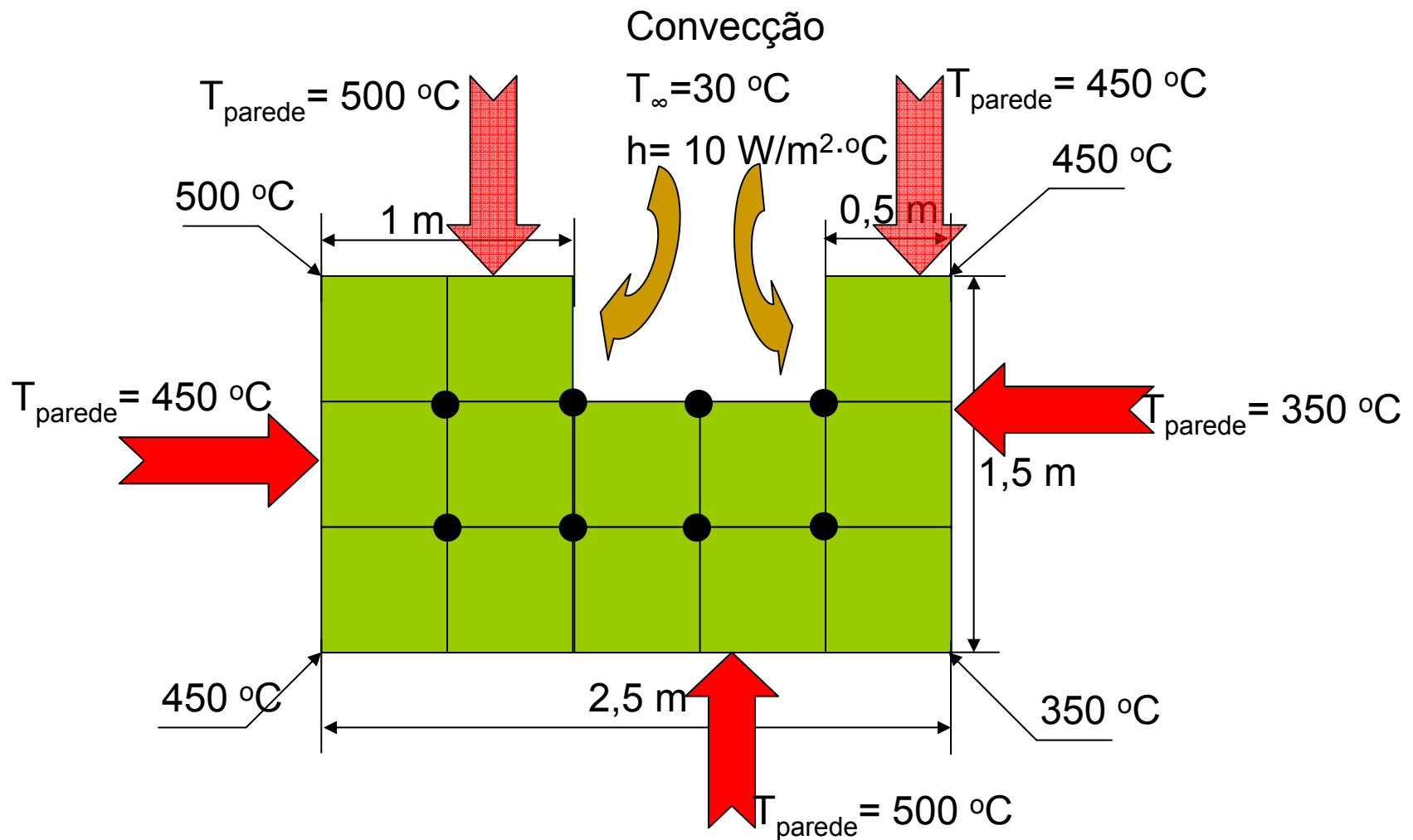
Variante 50



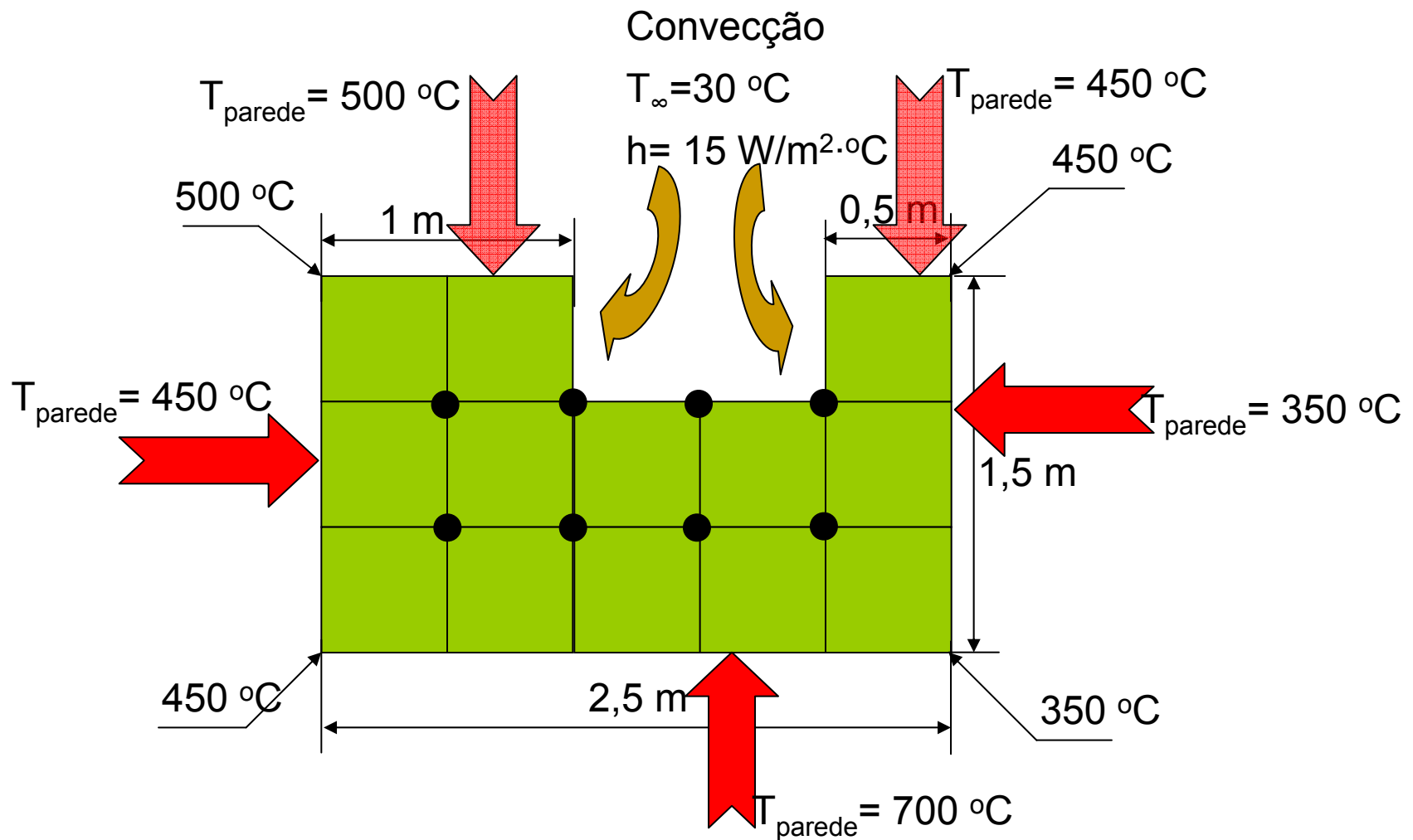
Problema VI

- Calcular as temperaturas dos nós assinalados a preto para uma placa de alumínio com as dimensões apresentadas na figura e as seguintes características:
 - Coeficiente de condutibilidade térmica 204 W/mk
 - Densidade 2707 kg/m³
 - Calor específico 896,0 J/kgK
- Variantes 51,52,53,54,55,56,57,58,59,60,61.

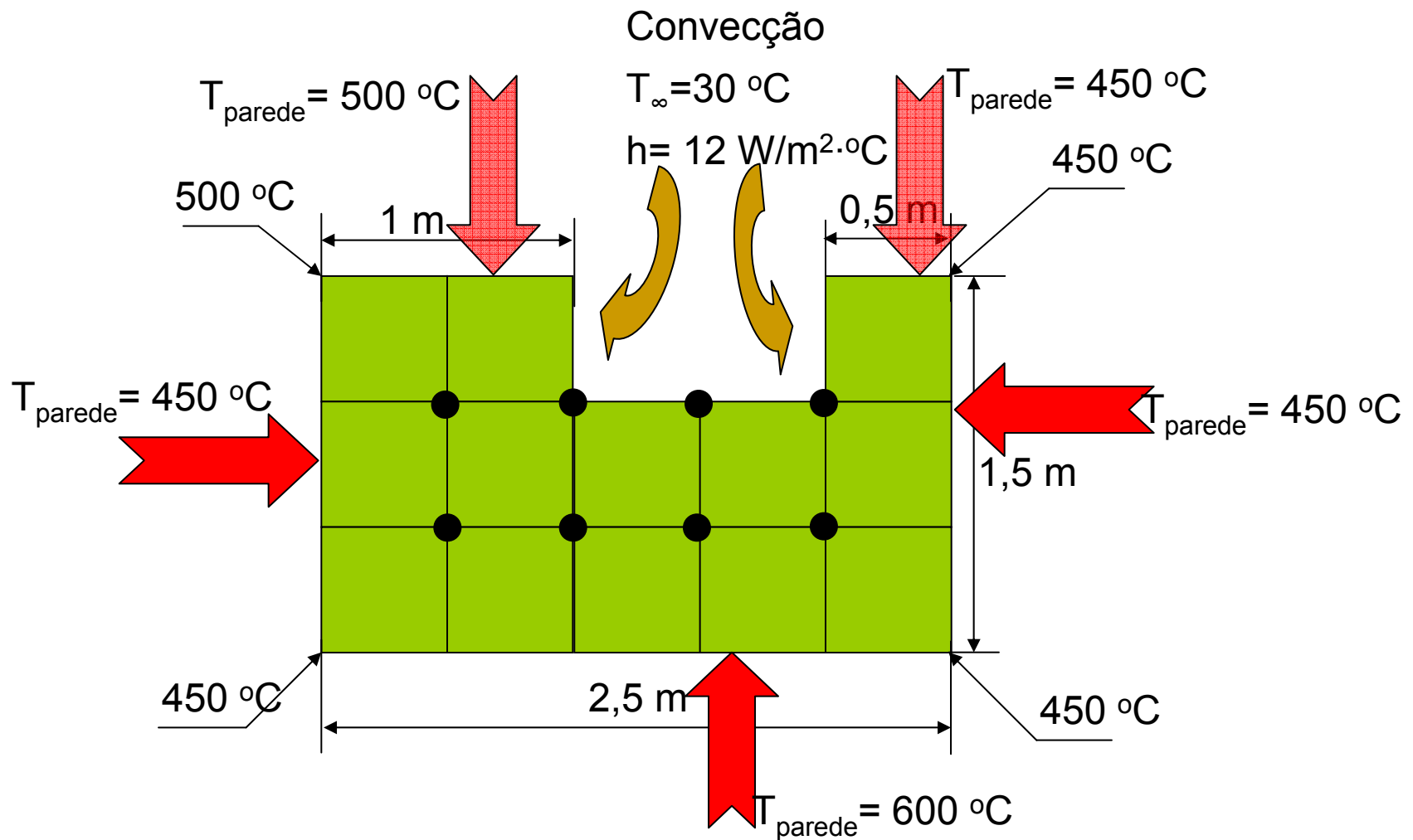
Variante 51



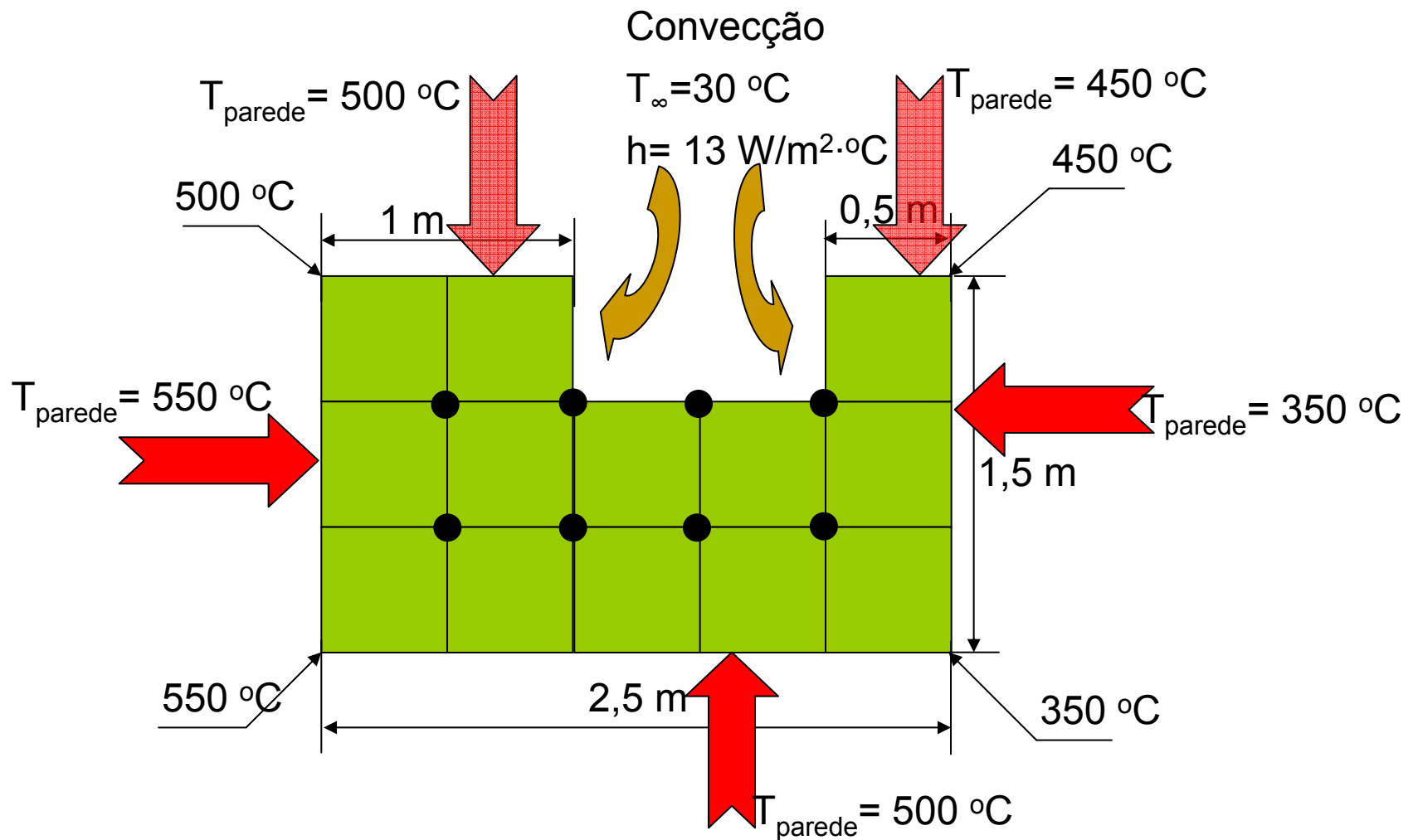
Variante 52



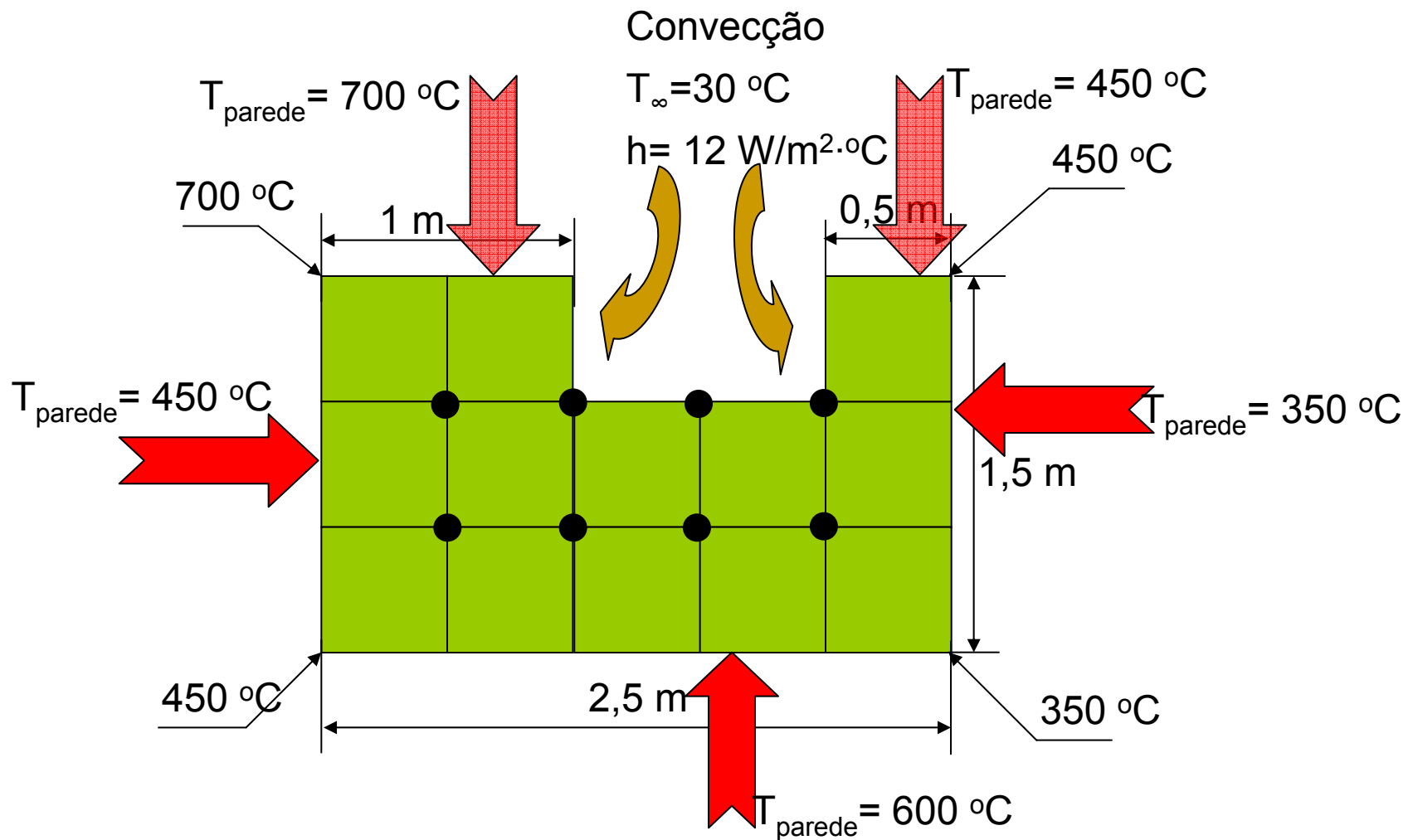
Variante 53



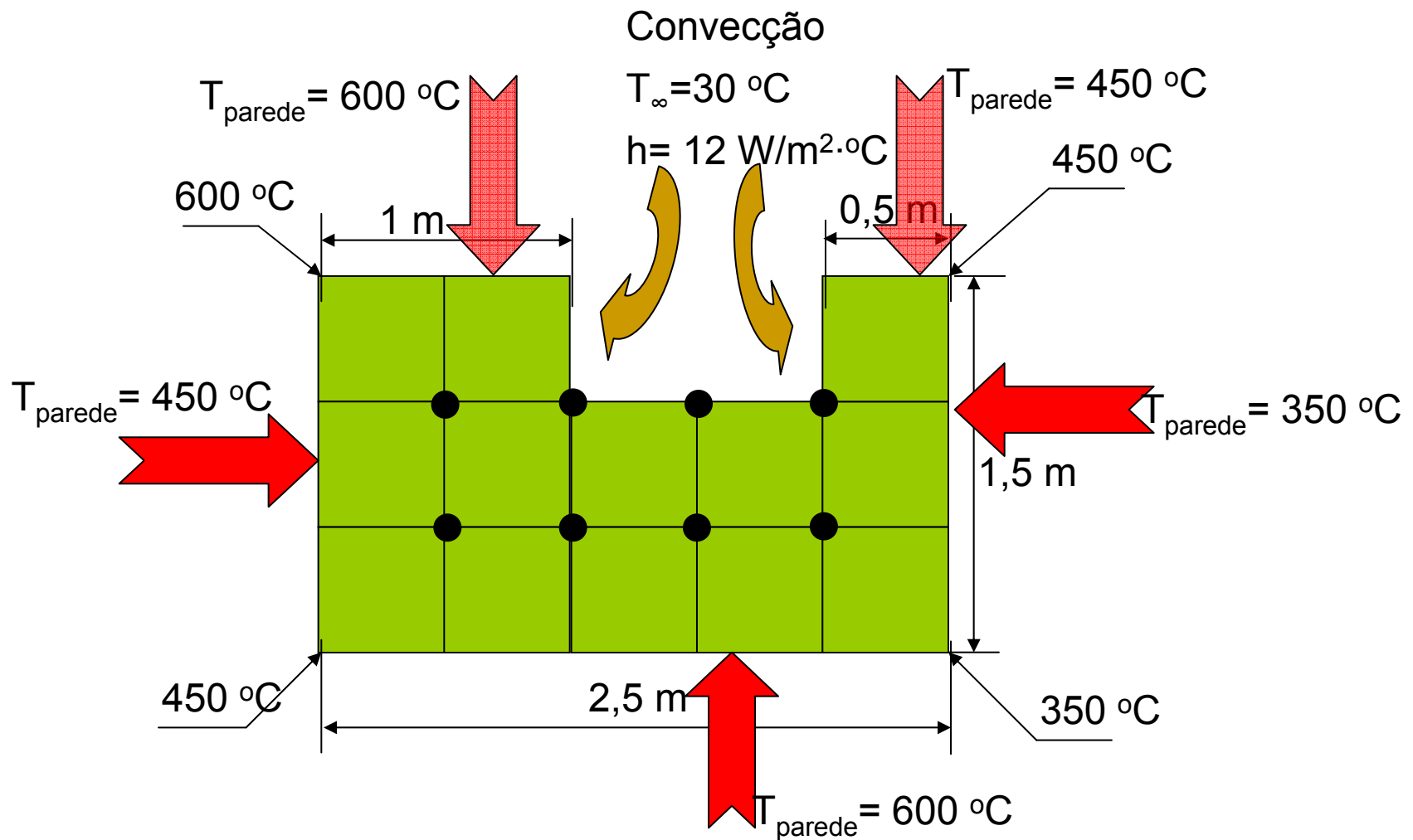
Variante 54



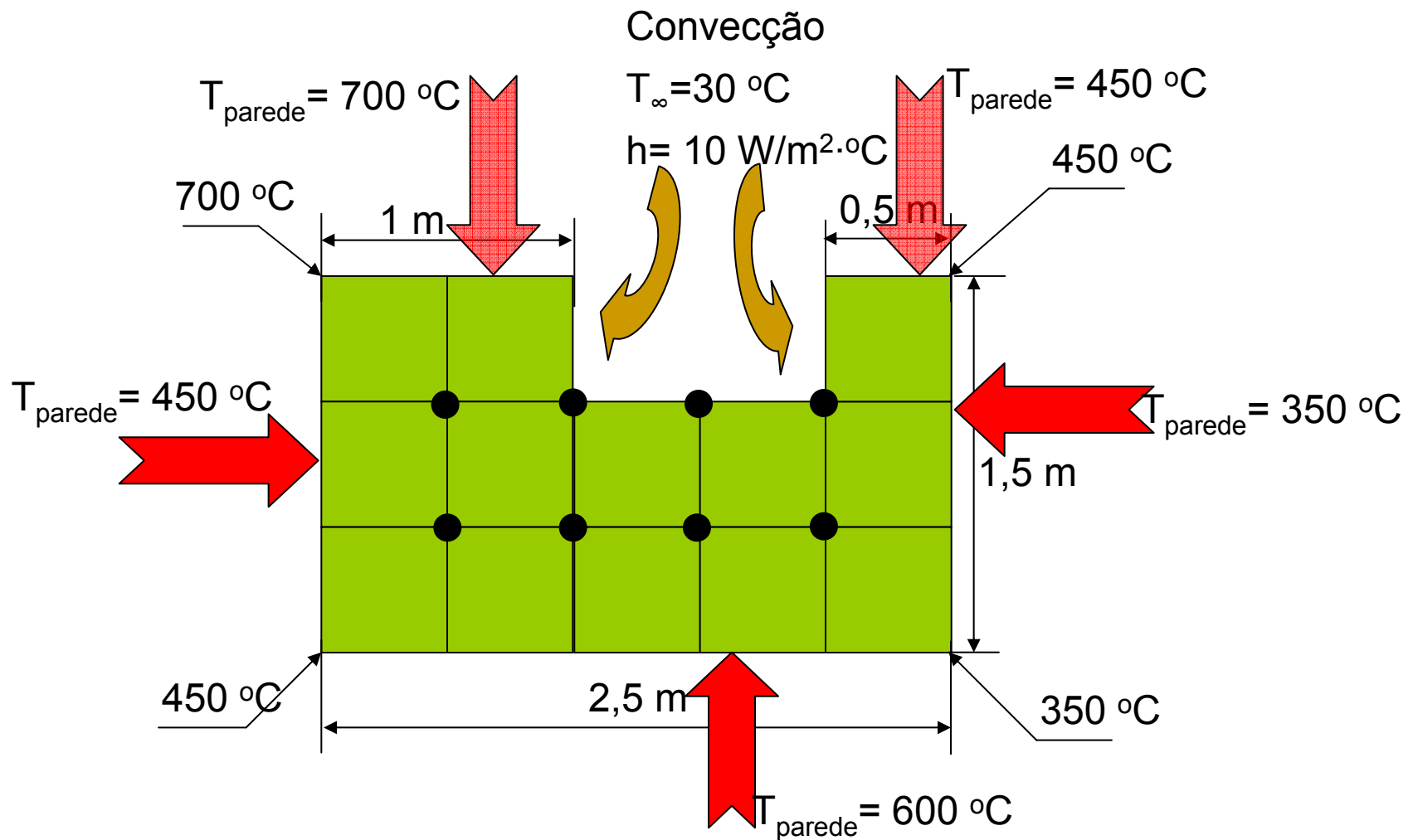
Variante 55



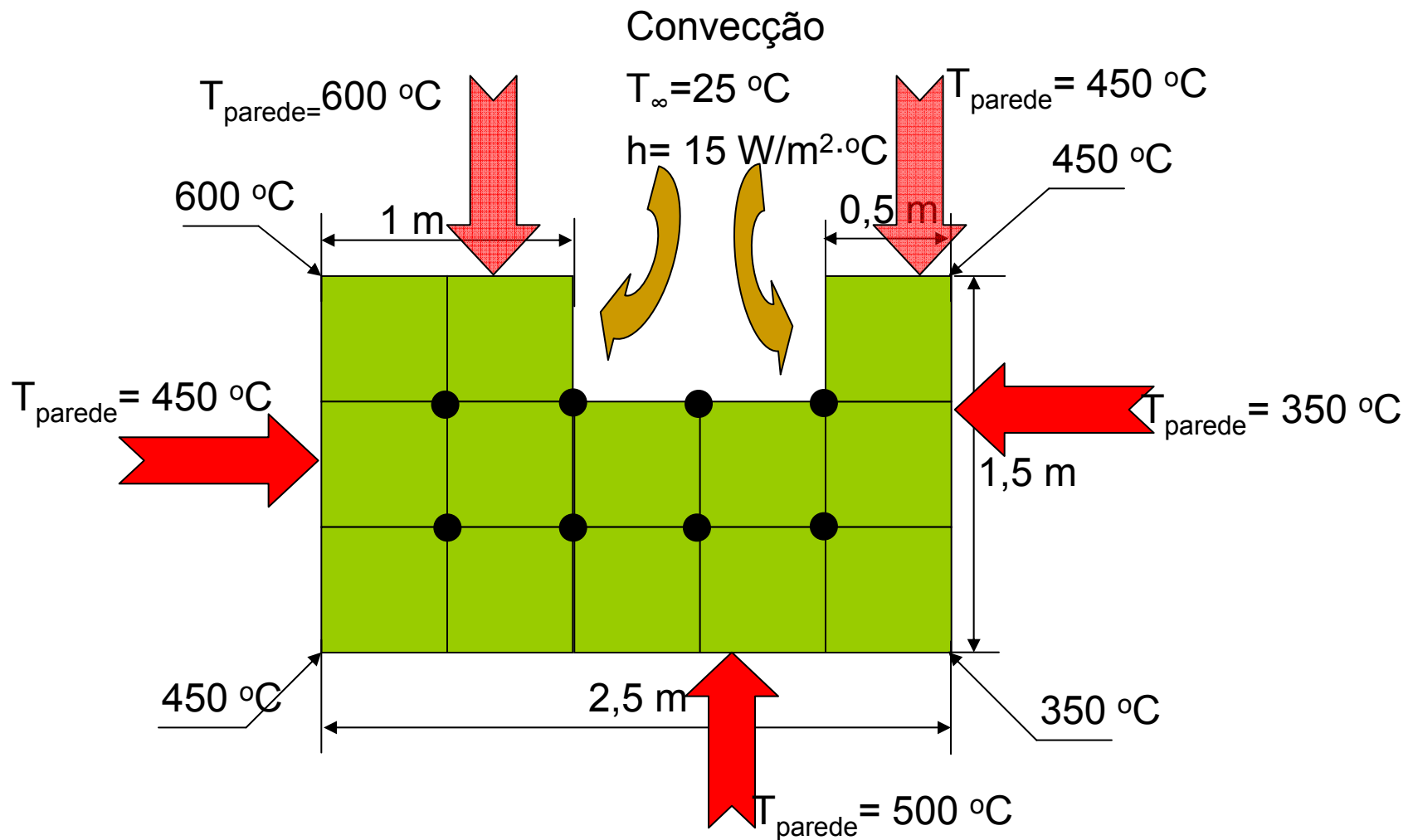
Variante 56



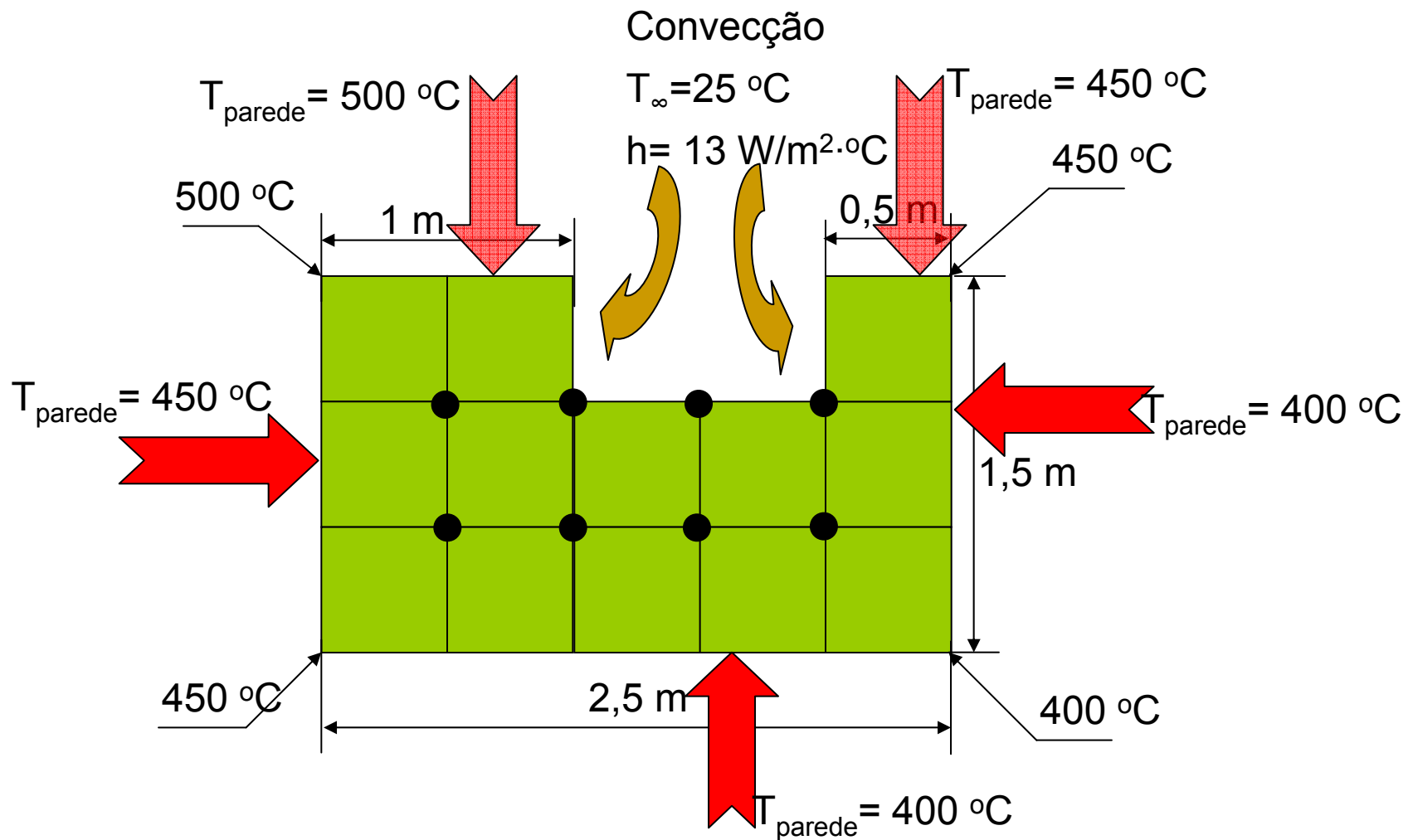
Variante 57



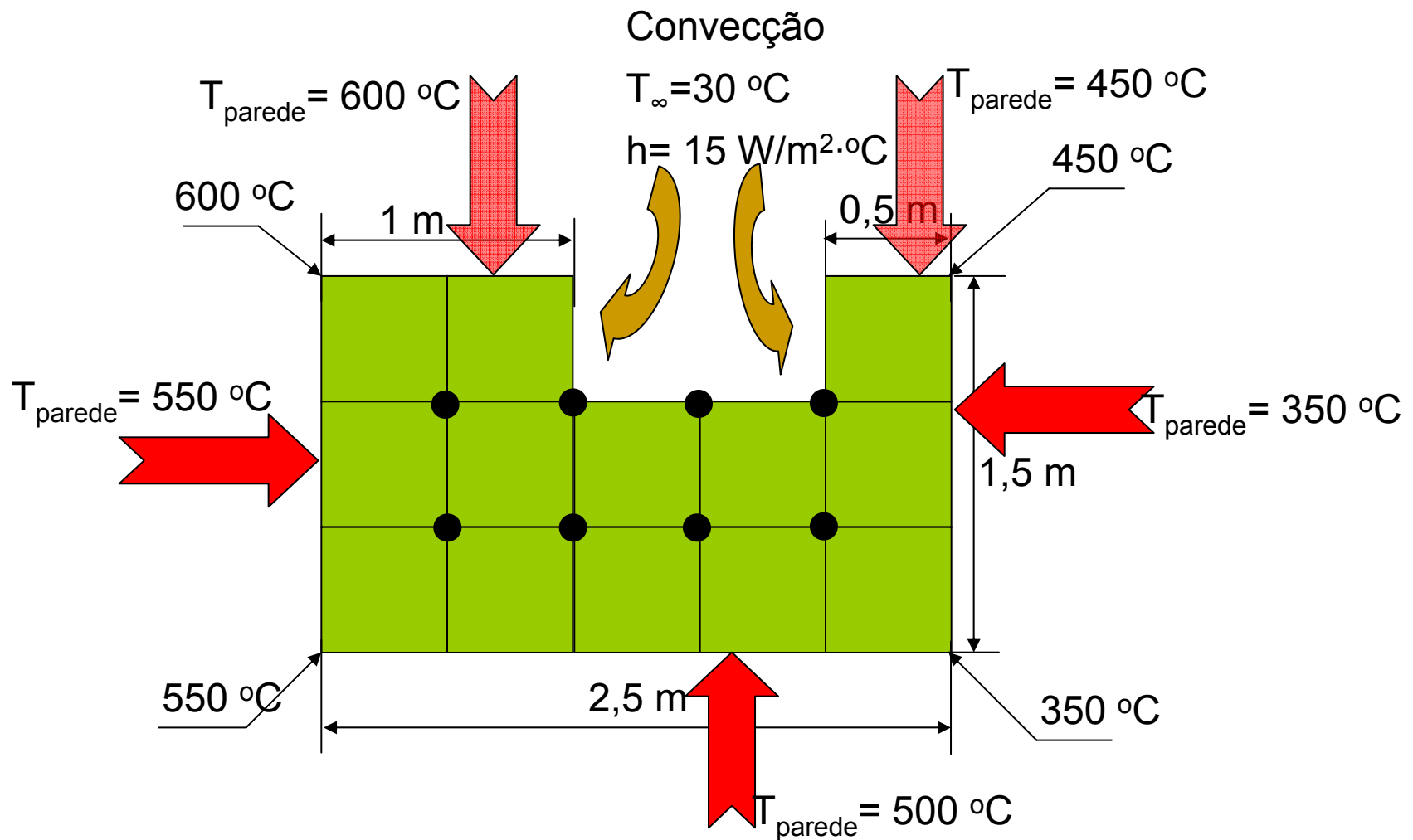
Variante 58



Variante 59



Variante 60



Variante 61

