

Wspomaganie Decyzji Biznesowych

przykład - test zgodności w Electre Is

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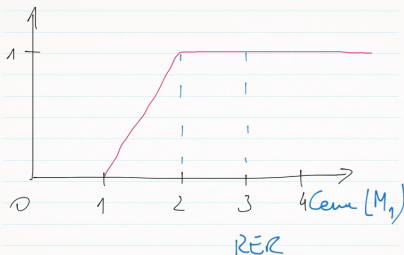
Treść zadania

	$\downarrow$ Cena	$\downarrow$ Czas	$\uparrow$ Komfort
RER	3	10	1
M_1	4	20	2
M_2	2	20	0
q	1	2	0
p	2	10	1
v	4	60	—
k	3	5	2

Współczynniki zgodności C_i

	$C_{\text{cena}} \downarrow$	$C_{\text{czas}} \downarrow$	$C_{\text{komfort}} \uparrow$
RER	3	10	1
M_1	4	20	2
M_2	2	20	0
q	1	2	0
p	2	10	1
v	4	60	—
k	3	5	2

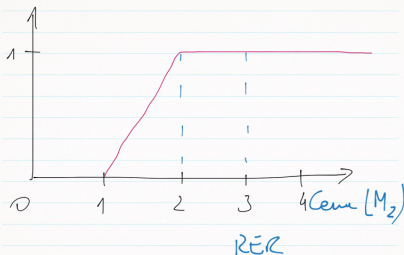
$$C_{\text{cena}}(\text{RER}, M_1) = 1$$



Współczynniki zgodności C_i

	$C_{\text{ena}} \downarrow$	$C_{\text{zas}} \downarrow$	$\text{Komfort} \uparrow$
REK	3	10	1
M_1	4	20	2
M_2	2	20	0
q	1	2	0
p	2	10	1
v	4	60	—
k	3	5	2

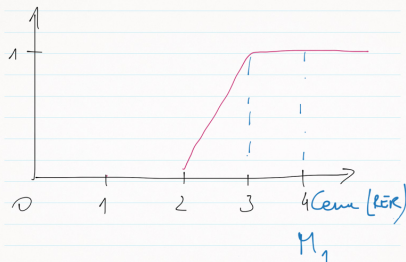
$$C_{\text{cena}}(\text{REK}, M_2) = 1$$



Współczynniki zgodności C_i

	$C_{\text{cena}} \downarrow$	$C_{\text{czas}} \downarrow$	$C_{\text{komfort}} \uparrow$
RER	3	10	1
M_1	4	20	2
M_2	2	20	0
q	1	2	0
p	2	10	1
v	4	60	—
k	3	5	2

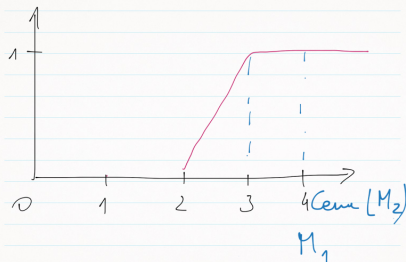
$$C_{\text{cena}}(M_1, \text{RER}) = 1$$



Współczynniki zgodności C_i

	$C_{\text{cena}} \downarrow$	$C_{\text{czas}} \downarrow$	$C_{\text{komfort}} \uparrow$
RER	3	10	1
M_1	4	20	2
M_2	2	20	0
q	1	2	0
p	2	10	1
v	4	60	—
k	3	5	2

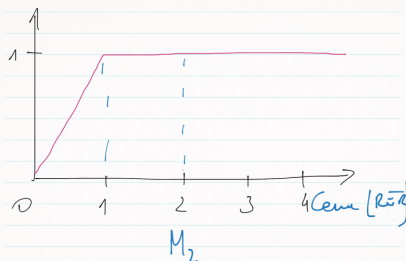
$$C_{\text{cena}}(M_1, M_2) = 0$$



Współczynniki zgodności C_i

	Cena ↓	Czas ↓	Komfort ↑
REF	3	10	1
M_1	4	20	2
M_2	2	20	0
q	1	2	0
p	2	10	1
v	4	60	—
k	3	5	2

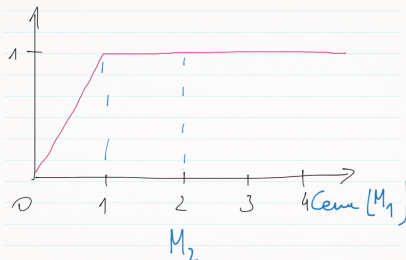
$$C_{\text{Cena}}(M_2, \text{REF}) = 1$$



Współczynniki zgodności C_i

	Cena ↓	Czas ↓	Komfort ↑
RER	3	10	1
M_1	4	20	2
M_2	2	20	0
q	1	2	0
p	2	10	1
v	4	60	—
k	3	5	2

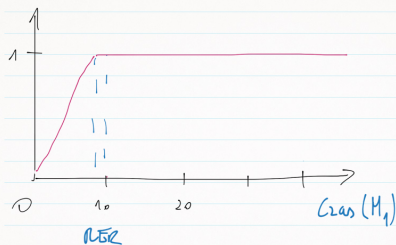
$$C_{\text{cena}}(M_2, M_1) = 1$$



Współczynniki zgodności C_i

	$C_{ena} \downarrow$	$C_{zas} \downarrow$	$Komfort \uparrow$
RER	3	10	1
M_1	4	20	2
M_2	2	20	0
q	1	2	0
p	2	10	1
v	4	60	—
k	3	5	2

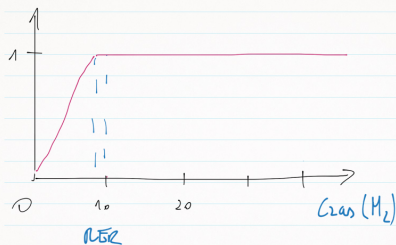
$$C_{zas}(RER, M_1) = 1$$



Współczynniki zgodności C_i

	$C_{ena} \downarrow$	$C_{zas} \downarrow$	$Komfort \uparrow$
RER	3	10	1
M_1	4	20	2
M_2	2	20	0
q	1	2	0
p	2	10	1
v	4	60	—
k	3	5	2

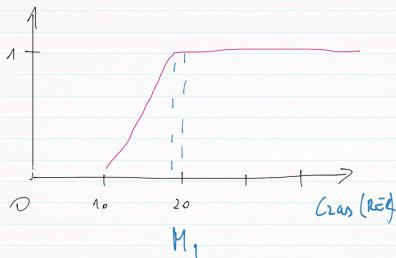
$$C_{zas}(RER, M_2) = 1$$



Współczynniki zgodności C_i

	Gena $\downarrow$	Gzas $\downarrow$	Komfort $\uparrow$
RER	3	10	1
M ₁	4	20	2
M ₂	2	20	0
q	1	2	0
p	2	10	1
v	4	60	—
k	3	5	2

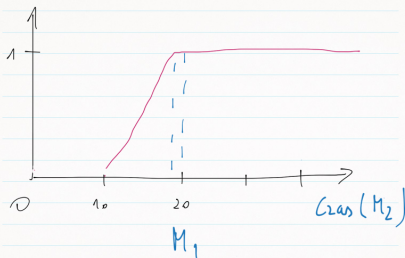
$$C_{zas}(M_1, RER) = 0$$



Współczynniki zgodności C_i

	$C_{ena} \downarrow$	$C_{zas} \downarrow$	$Komfort \uparrow$
RER	3	10	1
M_1	4	20	2
M_2	2	20	0
q	1	2	0
p	2	10	1
v	4	60	—
k	3	5	2

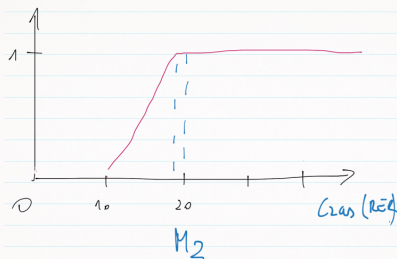
$$C_{zas}(M_1, M_2) = 1$$



Współczynniki zgodności C_i

	C_{ena} ↓	C_{zas} ↓	Komfort ↑
REER	3	10	1
M_1	4	20	2
M_2	2	20	0
q	1	2	0
p	2	10	1
v	4	60	—
k	3	5	2

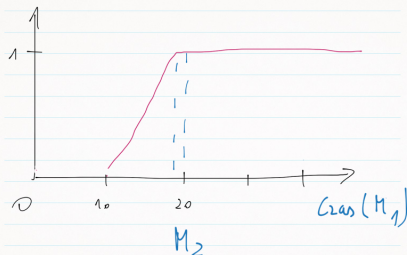
$$C_{zas}(M_2, REER) = 0$$



Współczynniki zgodności C_i

	$C_{ena} \downarrow$	$C_{zas} \downarrow$	$Komfort \uparrow$
RER	3	10	1
M_1	4	20	2
M_2	2	20	0
q	1	2	0
p	2	10	1
v	4	60	—
k	3	5	2

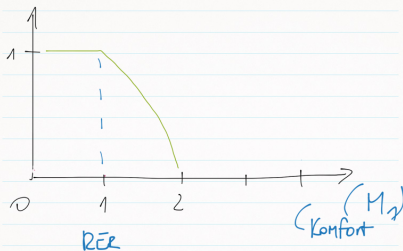
$$C_{zas}(M_2, M_1) = 1$$



Współczynniki zgodności C_i

	$C_{\text{ena}} \downarrow$	$C_{\text{zas}} \downarrow$	$C_{\text{komfort}} \uparrow$
REK	3	10	1
M_1	4	20	2
M_2	2	20	0
q	1	2	0
p	2	10	1
v	4	60	—
k	3	5	2

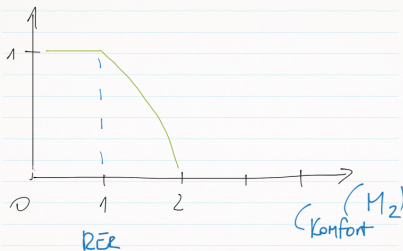
$$C_{\text{Komfort}}(\text{REK}, M_1) = 0$$



Współczynniki zgodności C_i

	$C_{\text{ena}} \downarrow$	$C_{\text{zas}} \downarrow$	$C_{\text{komfort}} \uparrow$
REK	3	10	1
M_1	4	20	2
M_2	2	20	0
q	1	2	0
p	2	10	1
v	4	60	—
k	3	5	2

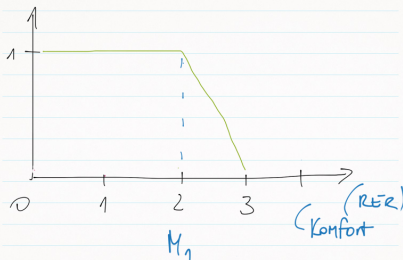
$$C_{\text{Komfort}}(\text{REK}, M_2) = 1$$



Współczynniki zgodności C_i

	$C_{ena} \downarrow$	$C_{zas} \downarrow$	$C_{komfort} \uparrow$
REZ	3	10	1
M_1	4	20	2
M_2	2	20	0
q	1	2	0
p	2	10	1
v	4	60	—
k	3	5	2

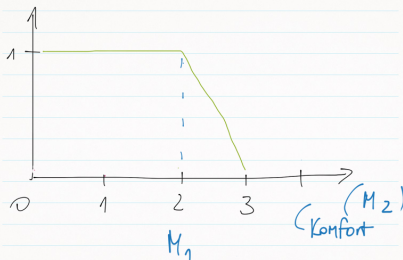
$$C_{Komfort}(M_1, REZ) = 1$$



Współczynniki zgodności C_i

	Gena $\downarrow$	Czas $\downarrow$	Komfort $\uparrow$
RER	3	10	1
M_1	4	20	2
M_2	2	20	0
q	1	2	0
p	2	10	1
v	4	60	—
k	3	5	2

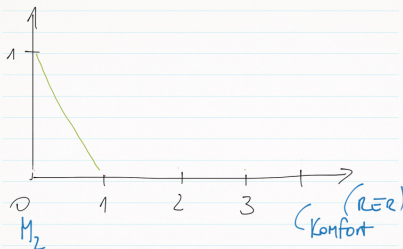
$$C_{\text{Komfort}}(M_1, M_2) = 1$$



Współczynniki zgodności C_i

	$C_{ena} \downarrow$	$C_{zas} \downarrow$	$C_{komfort} \uparrow$
REK	3	10	1
M_1	4	20	2
M_2	2	20	0
q	1	2	0
p	2	10	1
v	4	60	—
k	3	5	2

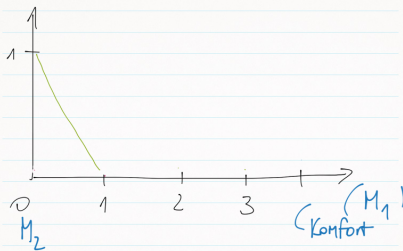
$$C_{Komfort}(M_2, REK) = 0$$



Współczynniki zgodności C_i

	$C_{\text{ena}} \downarrow$	$C_{\text{zas}} \downarrow$	$C_{\text{komfort}} \uparrow$
RER	3	10	1
M_1	4	20	2
M_2	2	20	0
q	1	2	0
p	2	10	1
v	4	60	—
k	3	5	2

$$C_{\text{Komfort}}(M_2, M_1) = 0$$



Współczynniki zgodności C

	Costa $\downarrow$	Czas $\downarrow$	Komfort $\uparrow$
PER	3	10	1
M_1	4	20	2
M_2	2	20	0
q	1	2	0
p	2	10	1
v	4	60	—
k	3	5	2

$$C(\text{PER}, M_1) = \frac{3+5}{10} = 0,8$$

$$C(\text{PER}, M_2) = 1$$

$$C(M_1, \text{PER}) = \frac{3+2}{10} = 0,5$$

$$C(M_1, M_2) = \frac{2+5}{10} = 0,7$$

$$C(M_2, \text{PER}) = \frac{3}{10} = 0,3$$

$$C(M_2, M_1) = \frac{2+5}{10} = 0,7$$

Jądro grafu przewyższania

$$C(RER, H_1) = \frac{3+5}{10} = 0,8$$

$$C(RER, M_2) = 1$$

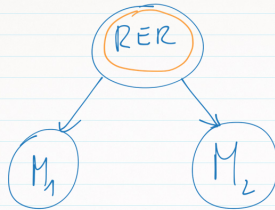
$$C(H_1, RER) = \frac{3+2}{10} = 0,5$$

$$C(M_1, M_2) = \frac{2+5}{10} = 0,7$$

$$C(H_2, RER) = \frac{3}{10} = 0,3$$

$$C(H_2, M_1) = \frac{2+5}{10} = 0,7$$

$$\lambda = 0,75$$



$$K = \{RER\}$$