5) Vogel Approximation method.

	W_1	W_2	W_3	
F_1	8	10	12	900
F_2	12	13	12	1000
F_3	14	10	11	1200
	1200	1000	900	

	W_1	W_2	W_3		
F_1	900 / 8	10	/ 12	900 0	2
F_2	12	13	12	1000	0
F_3	14	10	11	1200	1
	1200 300	1000	900		
	4				

Maximum

	W₁	W₂	W₃		
F₂	12	13	12	1000	0
F₃	14	10 **1000**	11	1200 200	1
	300	1000/0	900		
	2	3 ↓	1		
		Max			

	W₁	W₃		
F₂	12	12	1000	0
F₃	14	11 **200**	200 3 → Max	0
	300	900 700		
	2	1		

	W₁	W₃		
F₂	12 **300**	12	700 1000 0	
	300/0	700		
	12	12		

	W₃	
f₂	12 **700**	700 0
	700/0	

$$VAM = 900 \times 8 + 1000 \times 10 + 200 \times 11 +$$
$$300 \times 12 + 700 \times 12$$
$$= 7200 + 10000 + 2200 + 3600 +$$
$$8400$$
$$= 31400.$$