

Abb. 6/1

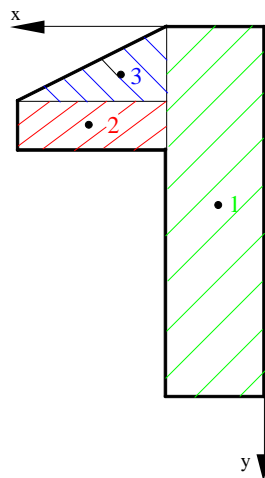
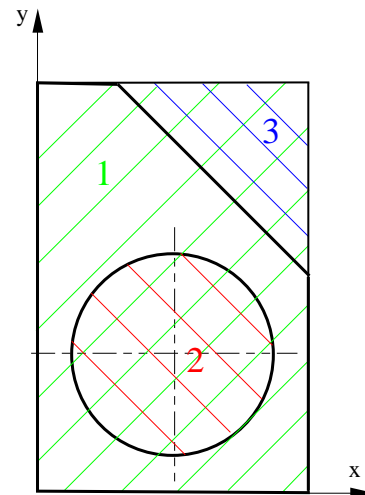


Abb. 6/2



zu Abb. 6/1:

i	A_i [cm ²]	x_{Si} [cm]	y_{Si} [cm]	$x_{Si} A_i$ [cm ³]	$y_{Si} A_i$ [cm ³]
1	60	2	7,5	120	450
2	12	7	4	84	48
3	9	6	2	54	18
	$\sum A_i = 81$			$\sum x_{Si} A_i = 258$	$\sum y_{Si} A_i = 516$

$$x_S = \frac{1}{\sum A_i} \sum x_{Si} A_i = a = 31,85 \text{ mm}; \quad y_S = \frac{1}{\sum A_i} \sum y_{Si} A_i = b = 63,7 \text{ mm}$$

zu Abb. 6/2:

i	A_i [cm ²]	x_{Si} [cm]	y_{Si} [cm]	$x_{Si} A_i$ [cm ³]	$y_{Si} A_i$ [cm ³]
1	24	2	3	48	72
2	-7,07	2	2	-14,14	-14,14
3	-3	3,33	5	-10	-15
	$\sum A_i = 13,93$			$\sum x_{Si} A_i = 23,86$	$\sum y_{Si} A_i = 42,86$

$$x_S = \frac{1}{\sum A_i} \sum x_{Si} A_i = a = 17,13 \text{ mm} ; \quad y_S = \frac{1}{\sum A_i} \sum y_{Si} A_i = b = 30,77 \text{ mm}$$