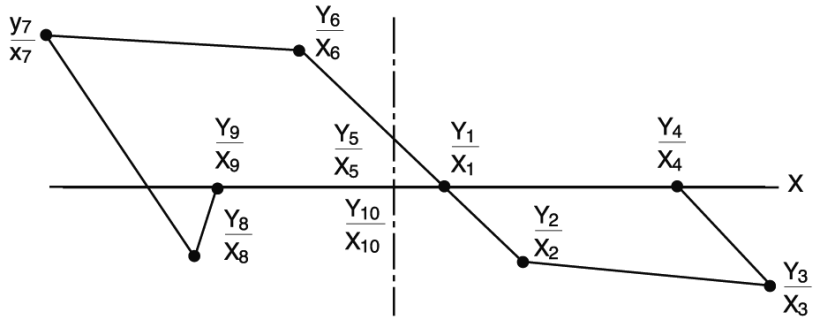


Alan Hesabında Kros Metodu



Dolgu

$$2 Ad = \frac{y_1}{x_1} + \frac{y_2}{x_2} + \frac{y_3}{x_3} + \frac{y_4}{x_4} + \frac{y_1}{x_1}$$

Dolgu

$$2 Ad = [(x_1 \cdot y_2 + x_2 \cdot y_3 + x_3 \cdot y_4 + x_4 \cdot y_1) - (x_1 \cdot y_4 + x_4 \cdot y_3 + x_3 \cdot y_2 + x_2 \cdot y_1)]$$

Yarma

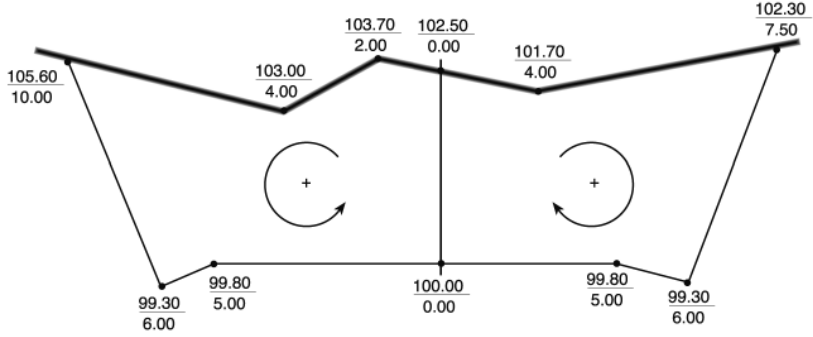
$$2 Ay = \frac{y_1}{x_1} + \frac{y_5}{x_5} + \frac{y_6}{x_6} + \frac{y_7}{x_7} + \frac{y_8}{x_8} + \frac{y_9}{x_9} + \frac{y_{10}}{x_{10}} + \frac{y_1}{x_1}$$

Yarma

$$2 Ay = \begin{bmatrix} (x_1 \cdot y_5 + x_5 \cdot y_6 + x_6 \cdot y_7 + x_7 \cdot y_8 + x_8 \cdot y_9 + x_9 \cdot y_{10} + x_{10} \cdot y_1) \\ -(x_1 \cdot y_{10} + x_{10} \cdot y_9 + x_9 \cdot y_8 + x_8 \cdot y_7 + x_7 \cdot y_6 + x_6 \cdot y_5 + x_5 \cdot y_1) \end{bmatrix}$$

Kros Metodu Sayısal Örnek

Kazı (Yarma) Enkesiti



102.50 x 4.00	0.00 x 101.70	102.50 x 2.00	0.00 x 103.70
101.70 x 7.50	4.00 x 102.30	103.70 x 4.00	2.00 x 103.00
102.30 x 6.00	7.50 x 99.30	103.00 x 10.00	4.00 x 105.60
99.30 x 5.00	6.00 x 99.80	105.60 x 6.00	10.00 x 99.30
99.80 x 0.00	5.00 x 100.00	99.39 x 5.00	6.00 x 99.80
100.00 x 0.00	0.00 x 102.50	99.80 x 0.00	5.00 x 100.00
2283.05	2252.75	100.00 x 0.00	0.00 x 102.50
		2779.90	2720.20

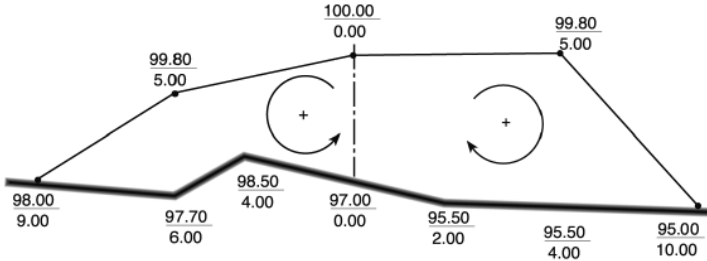
$$S_{SAG} = (2283.05 - 2252.75) / 2 = 15.15$$

$$S_{SOL} = (2779.90 - 2720.20) / 2 = 29.85$$

$$S_{YARMA} = S_{SOL} + S_{SAG}$$

$$S_{YARMA} = 29.85 + 15.15 = 45.00 \text{ m}^2 \text{ bulunur}$$

Dolgu Enkesiti



100.00 x 5.00	0.00 x 99.80	100.00 x 5.00	0.00 x 99.80
99.80 x 10.00	5.00 x 95.00	99.80 x 9.00	5.00 x 98.00
95.00 x 4.00	10.00 x 95.50	98.00 x 6.00	9.00 x 97.50
95.50 x 2.00	4.00 x 95.50	97.70 x 4.00	6.00 x 98.50
95.50 x 0.00	2.00 x 97.00	98.50 x 0.00	4.00 x 97.00
97.00 x 0.00	0.00 x 100.00	97.00 x 0.00	0.00 x 100.00
2069.00	2006.00	2377.00	2348.30

$$S_{SAG} = (2069.00 - 2006.00) / 2 = 31.50$$

$$S_{SOL} = (2377.00 - 2348.30) / 2 = 14.35$$

$$S_{DOLGU} = S_{SOL} + S_{SAG}$$

$$S_{DOLGU} = 14.35 + 31.50 = 45.85 \text{ m}^2 \text{ bulunur}$$