

Ergebnisse zum Übungsblatt 1

Fläche 1

①

$$A = 0,41 * 0,22 = \underline{0,09\text{m}^2}$$
$$U = (0,41 + 0,22) * 2 = \underline{1,26\text{m}}$$

②

$$A = 32,00 * 47,50 = 1520,00\text{m}^2$$
$$+ 17,00 * 31,00 = \underline{527,00\text{m}^2}$$
$$\underline{2047,00\text{m}^2}$$
$$U = (32,00 + 17,00 + 47,50) * 2 = \underline{193,00\text{m}}$$

⑤

$$A = 2,00 * 6,50 = 13,00\text{m}^2$$
$$+ 2,00 * 3,40 = 6,80\text{m}^2$$
$$+ 1,65 * 4,80 = \underline{7,92\text{m}^2}$$
$$\underline{27,72\text{m}^2}$$
$$U = (6,50 + 5,65 + 1,40) * 2 = \underline{27,10\text{m}}$$

⑦

$$M = 30 / 3 = 10 \Rightarrow M \quad 1:10$$
$$A = 0,30 * 0,12 = 0,036\text{m}^2$$
$$+ 0,12 * 0,16 = \underline{0,019\text{m}^2}$$
$$\underline{0,055\text{m}^2}$$
$$U = (0,30 + 0,28) * 2 = \underline{1,16\text{m}}$$

⑨

$$M = 448,8 / 3,4 = 132 \Rightarrow M \quad 1:132$$
$$A = 4,488 * 2,376 = 10,66\text{m}^2$$
$$+ 3,168 * 1,32 = 4,18\text{m}^2$$
$$+ 1,32^2 * \pi / 4 = \underline{1,37\text{m}^2}$$
$$\underline{16,21\text{m}^2}$$

③

$$A = 0,87^2 * \pi = \underline{2,378\text{m}^2}$$
$$U = 0,87 * \pi * 2 = \underline{5,466\text{m}}$$

④

$$A = \frac{5,70 + 3,00}{2} * 3,30 = \underline{14,36\text{m}^2}$$
$$U = 5,70 + 3,00 = 8,70\text{m}$$
$$+ \sqrt{2,00^2 + 3,30^2} = 3,86\text{m}$$
$$+ \sqrt{0,70^2 + 3,30^2} = \underline{3,40\text{m}}$$
$$\underline{15,93\text{m}}$$

⑥

$$A = 4,50 * 5,10 = 22,95\text{m}^2$$
$$+ 1,50^2 * \pi / 2 = \underline{3,53\text{m}^2}$$
$$\underline{26,48\text{m}^2}$$
$$U = 4,50 * 3 + 5,10 + 2,10 = 16,20\text{m}$$
$$+ 1,50 * \pi = \underline{4,71\text{m}}$$
$$\underline{20,91\text{m}}$$

⑧

$$M = 3000 / 3 = 1000 \Rightarrow M \quad 1:1000$$
$$A = 30,00 * 29,00 = 870,00\text{m}^2$$
$$- 9,00 * 16,00 / 2 = \underline{72,00\text{m}^2}$$
$$\underline{798,00\text{m}^2}$$
$$U = 21,00 + 29,00 + 30,00 + 13,00 = 93,00\text{m}$$
$$+ \sqrt{9,00^2 + 16,00^2} = \underline{18,36\text{m}}$$
$$\underline{111,36\text{m}}$$

$$U = 2,376 + 4,488 + 3,696 + 3,168 = 13,728\text{m}$$
$$+ 1,32 * \pi / 2 = \underline{2,073\text{m}}$$
$$\underline{15,801\text{m}}$$