

### Solution 1.1

Pour la figure S1.1a :

$$A = A_1 + A_2$$

$$A = \frac{(2,5 - 0,6) \times 2 \times 2 + 1 + 1}{2} (2,5 - 0,6) + 1 \times 0,6 =$$

$$9,72 \text{ m}^2$$

$$P_w = 2\sqrt{(2,5 - 0,6)^2 + (2,5 - 0,6)^2} + 2 \times 0,6 + 1,0 =$$

$$10,70 \text{ m}$$

$$R_h = \frac{A}{P_w} = \frac{9,72}{10,70}; \quad R_h = 0,91 \text{ m}.$$

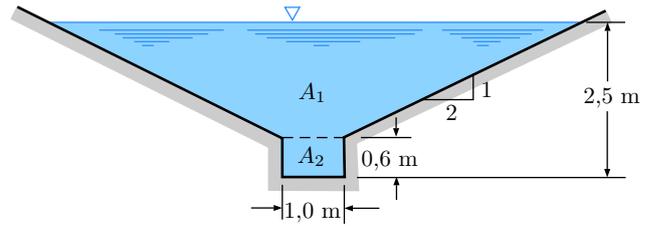


FIGURE S1.1A

Pour la figure S1.1b :

$$A = A_1 + A_2 + A_3 + A_4 + A_5$$

$$A = 12 \times 1 + \frac{12+10}{2} \times 1 + 10 \times 1 + \frac{10+8}{2} \times 1 + \frac{5+2}{2} \times 1 = 45,50 \text{ m}^2$$

$$P_w = 1 + \sqrt{2} + 1 + \sqrt{2} + 3 + \sqrt{5} + 2$$

$$+ \sqrt{8} + 1 + \sqrt{2} + 1 = 18,31 \text{ m}$$

$$R_h = \frac{A}{P_w} = \frac{45,50}{18,31}; \quad R_h = 2,48 \text{ m}.$$

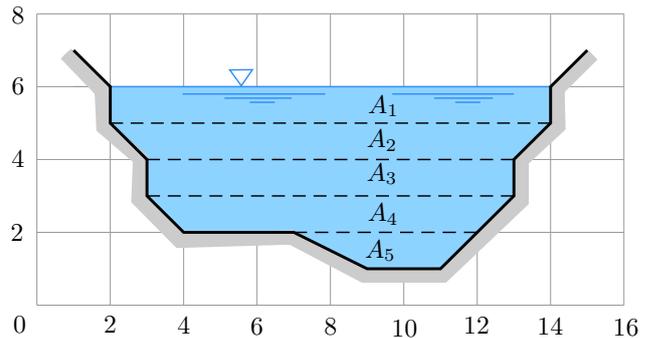


FIGURE S1.1B