Corrections

EX 1

$\mathscr{A}_{ABC} = AC \times HB \div 2 = 5 \text{ cm} \times 3 \text{ cm} \div 2 = 7,5 \text{ cm}^2$

$\mathscr{A}_{DEF} = DE \times IF \div 2 = 9 \text{ cm} \times 6 \text{ cm} \div 2 = 27 \text{ cm}^2$

$\mathscr{A}_{MNO} = MN \times JO \div 2 = 6 \text{ cm} \times 5 \text{ cm} \div 2 = 15 \text{ cm}^2$

ou $\mathscr{A}_{MNO} = ON \times KM \div 2 = 6,7 \text{ cm} \times 4,5 \text{ cm} \div 2 \approx 15 \text{ cm}^2$

EX 2

1. 3
2. 3,1
3. 35
4. 34,6
5. 19
6. 18,8
7. 66
8. 66

EX 3

1. $\mathscr{P}_1 = 2 \times 8 \times \pi \text{ cm} = 16\pi \text{ cm} \approx 50,3 \text{ cm}$

   $\mathscr{A}_1 = 8 \times 8 \times \pi \text{ cm}^2 = 64\pi \text{ cm}^2 \approx 201,1 \text{ cm}^2$

2. $\mathscr{P}_2 = 10\pi \text{ cm} \approx 31,4 \text{ cm}$

   $\mathscr{A}_2 = 5 \times 5 \times \pi \text{ cm}^2 = 25\pi \text{ cm}^2 \approx 78,5 \text{ cm}^2$

3. $\mathscr{P}_3 = 6\pi \text{ cm} \approx 18,8 \text{ cm}$

   $\mathscr{A}_3 = 3 \times 3 \times \pi \text{ cm}^2 = 9\pi \text{ cm}^2 \approx 28,3 \text{ cm}^2$

4. $\mathscr{P}_4 = 2 \times 11 \times \pi \text{ cm} = 22\pi \text{ cm} \approx 69,1 \text{ cm}$

   $\mathscr{A}_4 = 11 \times 11 \times \pi \text{ cm}^2 = 121\pi \text{ cm}^2 \approx 380,1 \text{ cm}^2$

EX 4

Cercle de rayon 3 cm :

$\mathscr{P}_1 = 2 \times 3 \times \pi \text{ cm} \approx 18,8 \text{ cm}$

$\mathscr{A}_1 = 3 \times 3 \times \pi \text{ cm}^2 \approx 28,3 \text{ cm}^2$

Demi-cercle de 4 cm de rayon :

$\mathscr{P}_2 = \frac{1}{2} \times 2 \times 4 \times \pi + 8 \text{ cm} \approx 20,6 \text{ cm}$

$\mathscr{A}_2 = \frac{1}{2} \times 4 \times 4 \times \pi \text{ cm}^2 \approx 25,1 \text{ cm}^2$

Quart de cercle de 2 cm de rayon :

$\mathscr{P}_3 = \frac{1}{4} \times 2 \times 2 \times \pi + 2 + 2 \text{ cm} \approx 7,1 \text{cm}$

$\mathscr{A}_3 = \frac{1}{4} \times 2 \times 2 \times \pi \text{ cm}^2 \approx 3,1 \text{ cm}^2$

EX 5

1. Le diamètre du grand cercle est de 6cm (2 cm + 2 cm + 2 cm) donc sa circonférence est : $6 \times \pi \text{ cm} \approx 18,8 \text{ cm}$

2. $\mathscr{A}_{\text{grand cercle}} = 3 \times 3 \times \pi \text{ cm}^2 = 9\pi \text{ cm}^2$

$\mathscr{A}_{\text{petit cercle}} = 1 \times 1 \times \pi \text{ cm}^2 = \pi \text{ cm}^2$

$\mathscr{A}_{\text{partie colorée}} = \mathscr{A}_{\text{grand cercle}} - \mathscr{A}_{\text{petit cercle}} = 9\pi - \pi \text{ cm}^2 = 8\pi \text{ cm}^2 \approx 25,1 \text{ cm}^2$

EX 6

$\mathscr{P}_{ABCDEF} = AB + BC + CD + DE + EF \approx 3 \text{ cm} + 4,9 \text{ cm} + 3,2 \text{ cm} + 1,3 \text{ cm} + 2,4 \text{ cm} + 5 \text{ cm} = 19,8 \text{ cm}$

$\mathscr{A}_{ABCDEF} = \mathscr{A}_{ABDF} + \mathscr{A}_{BCD} + \mathscr{A}_{DEF} = (3 \text{ cm} \times 5 \text{ cm}) + (5 \text{ cm} \times 3 \text{ cm} \div 2) + (3 \text{ cm} \times 1 \text{ cm} \div 2)$

$\mathscr{A}_{ABCDEF} = 15 \text{ cm}^2 + 7,5 \text{ cm}^2 + 1,5 \text{ cm}^2 = 24 \text{ cm}^2$

$\mathscr{P}_{RSTUV} = RS + ST + TU + UV + VR \approx 6 \text{ cm} + 4,3 \text{ cm} + 3,2 \text{ cm} + 6 \text{ cm} + 4 \text{ cm} = 23,5 \text{ cm}$

$\mathscr{A}_{RSTUV} = \mathscr{A}_{VRSU} - \mathscr{A}_{STU} = (6 \text{ cm} \times 4 \text{ cm}) - (4 \text{ cm} \times 3 \text{ cm} \div 2)$

$\mathscr{A}_{RSTUV} = 24 \text{ cm}^2 - 6 \text{ cm}^2 = 18 \text{ cm}^2$