

Solution des exercices *J'applique* (p. 329)**1**

- a. La figure 2 a le plus long périmètre.
b. La figure 1 a la plus grande aire.

2

- a. On ne peut pas calculer le périmètre.

$$\mathcal{A} = \frac{5 \times 5}{2} = 12,75 \text{ cm}^2$$

b. $\mathcal{P} = 2 \times \pi \times r = 2 \times \pi \times 2 = 4\pi \text{ cm}$
 $\approx 12,6 \text{ cm}$

$$\mathcal{A} = \pi \times r^2 = \pi \times 2^2 = 4\pi \text{ cm}^2 \approx 12,6 \text{ cm}^2$$

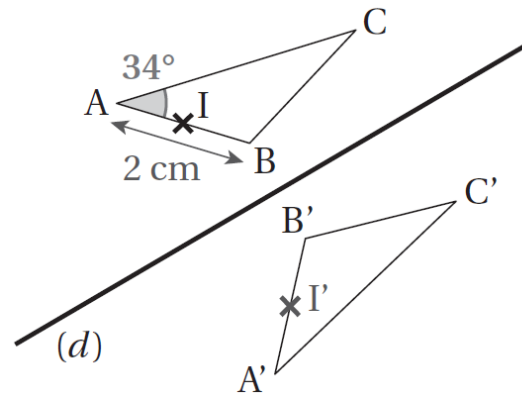
c. $\mathcal{P} = 3 \times 2 + 2 \times 4 + \pi \times 2 = 14 + 2\pi \text{ cm}$
 $\approx 20,3 \text{ cm}$

$$\mathcal{A} = 6 \times 3 - \pi \times 1^2 = 18 - \pi \text{ cm}^2 \approx 14,9 \text{ cm}^2$$

3

a. $\mathcal{A} = 4 \times \pi \times r^2 = 4 \times \pi \times 6\,371^2$
 $= 162\,358\,564\pi \text{ km}^2$
 $\approx 510\,064\,472 \text{ km}^2$

b. $\mathcal{A} = 4 \times \pi \times r^2 = 4 \times \pi \times 21,335^2$
 $= 1\,820,728\,9\pi \text{ mm}^2$
 $\approx 5\,720 \text{ mm}^2$

4**1.**

2. a. $A'B' = AB = 2 \text{ cm}$

$$A'I' = AI = 1 \text{ cm}$$

b. $\widehat{B'A'C'} = \widehat{BAC} = 34^\circ$

c. $\mathcal{A}_{A'B'C'} = \mathcal{A}_{ABC} = 3 \text{ cm}^2$

5

1. $\mathcal{A} = k^2 \times a = 3^2 \times a = 9a$

→ Réponse c.

2. $p = 2 \times \pi \times \frac{R}{3} = \frac{1}{3} \mathcal{P}$

→ Réponse a.