

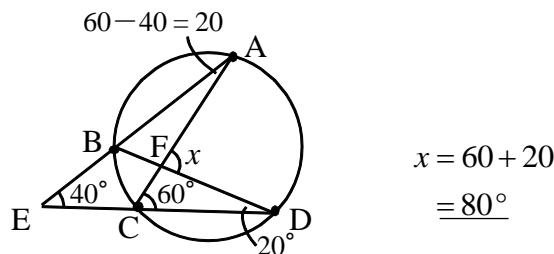
<解> PART16

$$\begin{aligned} [\text{問 1}] \quad & (\text{与式}) = \frac{4^2}{6_3} + 8 - 9 + \frac{1}{\sqrt{4}} \\ & = \frac{2}{3} - 1 + \frac{1}{2} \\ & = \frac{4-6+3}{6} \\ & = \underline{\underline{\frac{1}{6}}} \end{aligned}$$

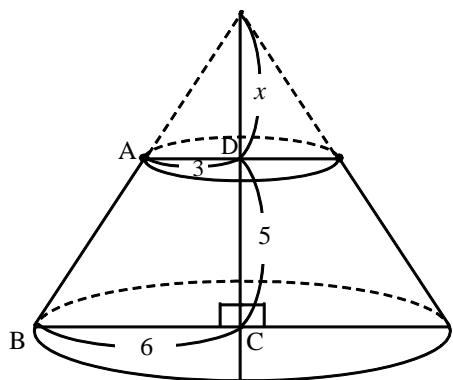
$$\begin{aligned} [\text{問 2}] \quad & \left\{ \begin{array}{l} 4x+9y=1 \\ \frac{x+1}{3} - \frac{4y-5}{2} = 2 \end{array} \right. \longrightarrow \left\{ \begin{array}{l} 4x+9y=1 \\ 2x+2-12y+15=12 \end{array} \right. \longrightarrow \left\{ \begin{array}{l} 4x+9y=1 \\ 2x-12y=-5 \end{array} \right. \longrightarrow \left\{ \begin{array}{l} 4x+9y=1 \\ 4x-24y=-10 \\ 33y=11 \end{array} \right. \\ & \begin{array}{r} 4x+3=1 \\ 4x=-2 \\ \hline x=-\frac{1}{2} \end{array} \quad \begin{array}{r} y=\frac{1}{3} \end{array} \end{aligned}$$

$$\begin{aligned} [\text{問 3}] \quad & (2x-3)(x+1) = (x-2)^2 + 3 \\ & 2x^2 - x - 3 = x^2 - 4x + 4 + 3 \\ & x^2 + 3x - 10 = 0 \\ & (x+5)(x-2) = 0 \\ & \underline{\underline{x=-5, \quad 2}} \end{aligned}$$

[問 4]



[問 5]



$$\begin{aligned} x : x+5 &= 3 : 6 \\ 6x &= 3x+15 \\ 3x &= 15 \\ x &= 5 \end{aligned}$$

$$\begin{aligned} \text{体積} &= 6 \times 6 \times \pi \times 10 \times \frac{1}{3} - 3 \times 3 \times \pi \times 5 \times \frac{1}{3} \\ &= 120\pi - 15\pi \\ &= \underline{\underline{105\pi \text{ (cm}^3\text{)}}} \end{aligned}$$