

(1)

$$\begin{aligned} &4 \times 4 \times 3.14 \div 2 \times 6 + 4 \times 4 \times 3.14 \times 4 \\ &= 4 \times 4 \times 3.14 \times 7 = 351.68 \end{aligned}$$

(答え) 351.68cm^3

(2)

$$\begin{aligned} &4 \times 4 \times 3.14 \times 2 + 4 \times 6 \times 4 + 4 \times 2 \times 3.14 \div 2 \times 6 + 4 \times 2 \times 3.14 \times 4 \\ &= 96 + 4 \times 3.14 \times (8 + 6 + 8) = 96 + 276.32 = 372.32 \end{aligned}$$

(答え) 372.32cm^2

(3)

水の高さが6cmですから、水が入れた部分は

$$\begin{aligned} &(6 \times 6 \times 3.14 - 4 \times 4 \times 3.14) \times 4 \\ &+ (6 \times 6 \times 3.14 - 4 \times 4 \times 3.14 \div 2) \times 2 \\ &= 80 \times 3.14 + 56 \times 3.14 = 136 \times 3.14 \end{aligned}$$

$$136 \times 3.14 \div 6 \times 6 \times 3.14 = 3\frac{7}{9}\text{cm}$$

(答え) $3\frac{7}{9}\text{cm}$