

$$\textcircled{1} \text{ SA} \\ 4\pi r^2 \\ 4(3.14)(5.2)^2 = \textcircled{339.62 \text{ in}^2}$$

$$\textcircled{2} \checkmark \\ \frac{4}{3}\pi r^3 = \frac{4}{3}(3.14)(5.2)^3 \\ \textcircled{588.68 \text{ in}^3}$$

③

SA

$$2\pi r^2 + 2\pi rh$$
$$2(3.14)(7)^2 + 2(3.14)(7)(18.7)$$
$$1129.77\text{m}^2$$

④

V

$$\pi r^2 h$$

$$3.14(7)^2(18.7) = 2877.18\text{m}^3$$

⑤

SA

$$\pi r^2 + \pi r l$$

$$3.14(4)^2 + 3.14(4)(10)$$

$$301.44 \text{ in}^2$$

⑥

V

$$\frac{1}{3} \pi r^2 h$$

$$\frac{1}{3} (3.14) (4)^2 (8)$$

$$301.44 \text{ in}^3$$

$$6^2 + x^2 = 10^2$$

$$36 + x^2 = 100$$

$$\begin{array}{r} -36 \\ \hline x^2 = 64 \\ x = 8 \end{array}$$

$$\textcircled{7} \quad r = 3.7$$

$$4\pi r^2$$

$$4(3.14)(3.7)^2$$

$$171.95 \text{ cm}^2$$

$$\textcircled{8} \quad \pi r^2 h$$

$$3.14(11.25)^2(33.5)$$

$$13313.11 \text{ in}^3$$

$$\textcircled{9} \quad \frac{1}{3} \pi r^2 h$$
$$\frac{1}{3} (3.14) (2.75)^2 (8.4)$$
$$\textcircled{66.49 \text{ in}^3}$$