Unit 3 Review Answers

① $35°$ ② $\frac{58\pi}{9}$ m ③ 63π cm

④ 2000π in^3 ⑤ 12 cm ⑥ 12,544 in^3

⑦ 324π cm^3 ⑧ 24 ⑨ $96°$

⑩ 179.6 in^3 ⑪ 28 cm^2 ⑫ a) same height
b) same cross-section area

⑬ $\frac{384}{\pi^2}$ in^3 or 38.9 in^3 ⑭ $15°$

⑮ 8 min ⑯ $\frac{48\pi}{5}$ cm ⑰ $\frac{3\pi}{2} - \frac{9}{2}$ or $\frac{3\pi - 9}{2}$

⑱ $\frac{3}{2}$ or 1.5 ⑲ 301.6 cm^3

⑳ Oops! I forgot the angle.
If $\angle RAC = 130°$, then **13 sec.**