

7.2 | 연습문제 정답

2023. 2. 10 업데이트

01. $\frac{16}{315}$

02. $\frac{\sqrt{3}}{8}\pi$

03. 2

04. $\frac{\pi^3}{72} + \frac{\pi^2}{2\sqrt{3}} - \pi$

05. $\frac{8}{5}\pi$

06. $\frac{16}{105}\pi$

07. (a) $\pi \left(2a - 2b + (a+b) \ln \left(\frac{b}{a} \right) \right)$ (b) $\frac{381}{7}\pi$

08. (a) $\frac{6561}{4}\pi$ (b) $\frac{32}{3}\pi$ (c) $\frac{6}{7}\pi$

09. $\frac{8}{3}\pi$

10. 8π

11. $\frac{63}{2}\pi$

12. $\frac{8}{3}\pi$

13. $\frac{21}{2}\pi$

14. (a) $10\pi^2$ (b) $2\pi\left(-\frac{11}{30} + \frac{2}{\pi} + \frac{4}{\pi^2}\right)$

15. (a) $\frac{4}{3}\pi r^3$ (b) $\frac{1}{3}\pi r^2 h$