

12.2 | 연습문제 정답

2025. 3. 10 업데이트

01. (a) $4\left(\frac{\sqrt{3}}{2} + \frac{\pi}{3}\right)$

(b) $4\left(\frac{\pi}{3} - \frac{\sqrt{3}}{4}\right)$

(c) $\frac{\pi}{3}$

02. $\sqrt{65} - 8\cos^{-1}\left(\sqrt{\frac{13}{18}}\right)$

03. $\pi(e^4 - 1)$

04. $\frac{\pi}{8}\ln 2$

05. $\frac{5}{3}\pi$

06. 35π

07. 0

08. $\pi(\cos 1 - \cos 4)$

09. $\frac{81}{8}\pi$

10. 56π

11. $\frac{2\pi}{3}(a-b)^2(2a+b)$

12. $\frac{1}{9}a^3(6\pi-8)$

13. 생략

14. 생략

15. 6π