

5.2 | 연습문제 정답

01. (a) 4 (b) $\frac{9}{2}\pi$ (c) 25

02. $-\pi + 4$

03. 11

04. $\int_{-3}^7 f(x) dx$

05. 0

06. 10

07. 365700

08. 204

09. $7\sqrt{5} \leq \int_2^9 \sqrt{1+x^2} dx \leq 7\sqrt{82}$

10. (a) $-\tan^2 x \cos x$ (b) $\frac{2\sec^2 x}{1 + \sqrt{\tan x}}$ (c) $2xe^{x^4} - \cos x e^{\sin^2 x}$

11. $-1 < x < 1$

12. $y = \frac{1}{2}x - 1$

13. $\sqrt{e}$

14. $\frac{13}{4}$

15. 증명 생략