Section 5.3
Hints

2. Evaluate the area between $g(x)$ and x-axis.

6. Compute it straightly.

12. Use fundamental theorem of calculus, page 383 in our text book .

14. Use fundamental theorem of calculus, page 384 in our text book.

19. Compute it straightly.

40. Compute it straightly.

46. Consider what happened at $x = \dfrac{\pi}{2}$.

54. Use fundamental theorem of calculus.

63. Evaluate the area.

66. Consider the definition of Riemann sum.

71. Compute it directly.