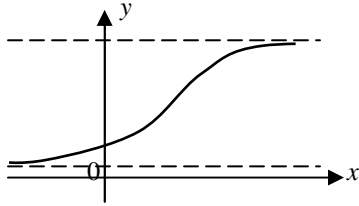
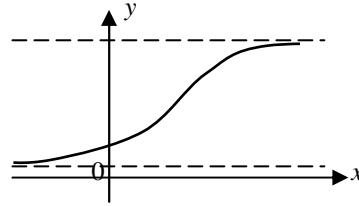


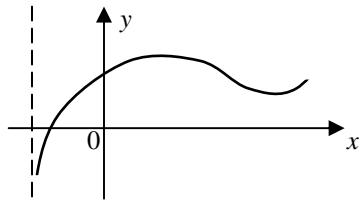
1. The graph of $y = \int f(x)dx$ is shown below. Sketch $y = f(x)$.



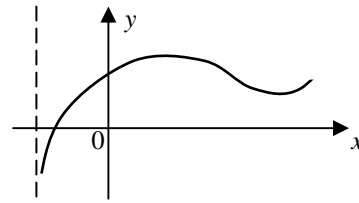
2. The graph of $y = f(x)$ is shown below. Sketch $y = \int f(x)dx$.



3. The graph of $y = \int f(x)dx$ is shown below. Sketch $y = f(x)$.



4. The graph of $y = f(x)$ is shown below. Sketch $y = \int f(x)dx$.



5. Evaluate $\int_{-1}^1 \sin^{-1}\left(\frac{x}{2}\right) dx$ without using graphics calculator.

6. Evaluate $\int_{-1}^1 \left(\cos^{-1} x - \frac{\pi}{2}\right) dx$ without using graphics calculator.

7. Evaluate $\int_{-5}^5 \left(0.3 \cos^2(2x+1) + \frac{3}{10} \sin^2(2x+1)\right) dx$ without using graphics calculator.

8. Evaluate $\int_{-1}^1 \left(\frac{3}{2} \sec^2\left(\frac{x}{3}\right) - \frac{3}{2} \tan^2\left(\frac{x}{3}\right)\right) dx$ without using graphics calculator.

9. Evaluate $\int_0^{1.5} \sqrt{\frac{3}{3-x^2}} dx$ without using graphics calculator.

10. Evaluate $\int_{\sqrt{2}}^{-\sqrt{2}} \frac{2}{(i\sqrt{2}-x)(i\sqrt{2}+x)} dx$.

11. Evaluate $\int_{-\pi}^{\pi} \left(\frac{\sin x}{x}\right) dx$.

Numerical, algebraic and worded answers.

- 5. 0
- 6. 0
- 7. 3
- 8. 3
- 9. $\pi\sqrt{3}$
- 10. $\pi\sqrt{2}$
- 11. ≈ 3.704