Question 2   **(6 marks)**
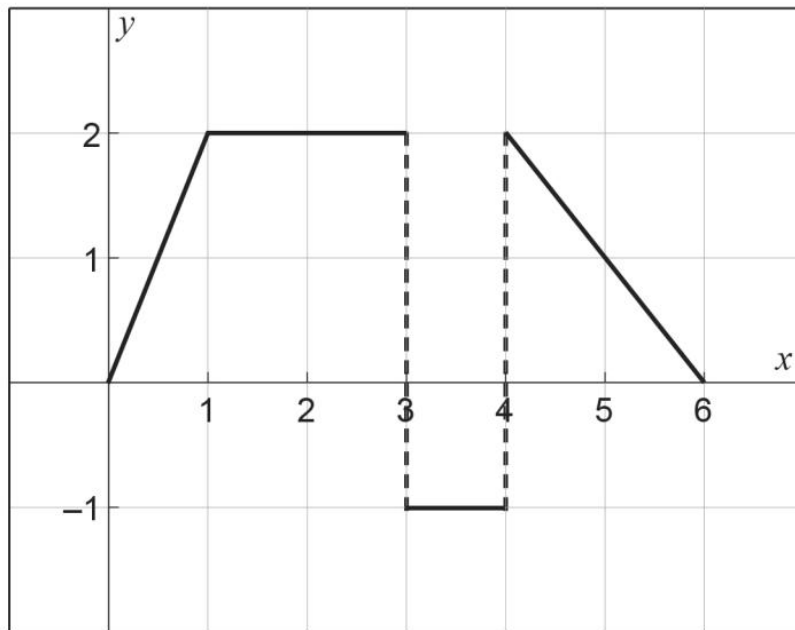
Consider the function $f(x)$ shown below.

Evaluate the following integrals.

(a) $\int_0^6 f(x)\, dx$ (2 marks)

(b) $\int_0^4 f(x) - 2\, dx$ (2 marks)

(c) $\int_4^6 f'(x)\, dx$ (2 marks)