

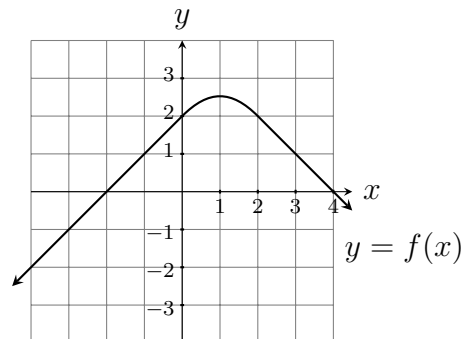
1. Answer the questions about the function  $f(x)$  graphed below.

(a)  $\int_{-2}^0 f(x) dx =$

(b)  $\int_0^{-2} f(x) dx =$

(c)  $\int_{-4}^{-1} f(x) dx =$

(d) Suppose  $\int_0^2 f(x) dx = 4.7$ . Find  $\int_{-2}^2 f(x) dx$ .



(e)  $\lim_{n \rightarrow \infty} \sum_{k=1}^n f\left(2 + \frac{2k}{n}\right) \frac{2}{n} =$

2. Suppose for functions  $f$  and  $g$  we have:  $\int_1^4 f(x) dx = 1$ ,  $\int_4^6 f(x) dx = 3$ ,  $\int_1^6 g(x) dx = 4$ .

Find  $\int_1^6 (f(x) + 2g(x)) dx$

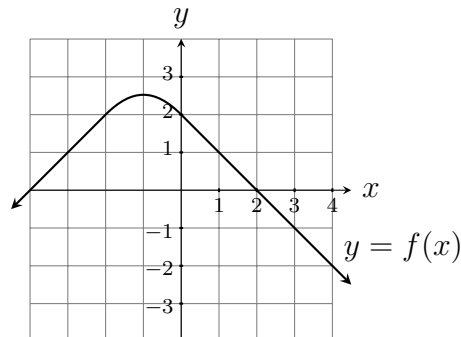
1. Answer the questions about the function  $f(x)$  graphed below.

(a)  $\int_1^4 f(x) dx =$

(b)  $\int_4^1 f(x) dx =$

(c)  $\int_0^2 f(x) dx =$

(d) Suppose  $\int_{-2}^0 f(x) dx = 4.7$ . Find  $\int_{-2}^2 f(x) dx$ .



(e)  $\lim_{n \rightarrow \infty} \sum_{k=1}^n f\left(\frac{2k}{n}\right) \frac{2}{n} =$

2. Suppose for functions  $f$  and  $g$  we have:  $\int_1^4 f(x) dx = -1$ ,  $\int_4^6 f(x) dx = 2$ ,  $\int_1^6 g(x) dx = 3$ .

Find  $\int_1^6 (f(x) + 5g(x)) dx$