

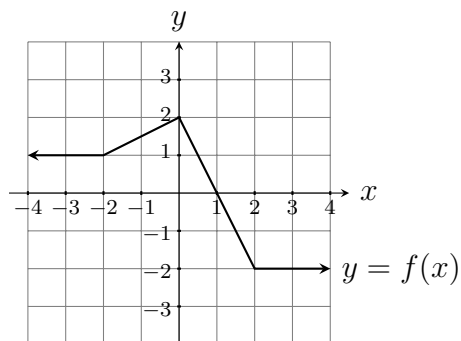
Name: \_\_\_\_\_

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

(a) 
$$\int_{-3}^0 f(x) dx =$$

(b) 
$$\int_0^4 f(x) dx =$$

(c) Suppose  $\int_0^7 f(x) dx = 10$ . Find  $\int_4^7 f(x) dx$ .

2. Find  $\int_{-1}^1 3\sqrt{1-x^2} dx$  by considering area.3. Write  $\lim_{n \rightarrow \infty} \sum_{k=1}^n \sqrt{2 + \frac{9k}{n}} \frac{9}{n}$  as a definite integral.

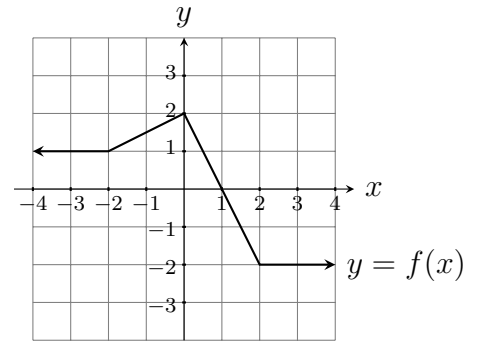
Name: \_\_\_\_\_

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

(a) 
$$\int_{-4}^0 f(x) dx =$$

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

(c) Suppose  $\int_0^7 f(x) dx = 10$ . Find  $\int_2^7 f(x) dx$ .

2. Find  $\int_0^1 3\sqrt{1-x^2} dx$  by considering area.3. Write  $\lim_{n \rightarrow \infty} \sum_{k=1}^n \sqrt{2 + \frac{8k}{n}} \frac{8}{n}$  as a definite integral.

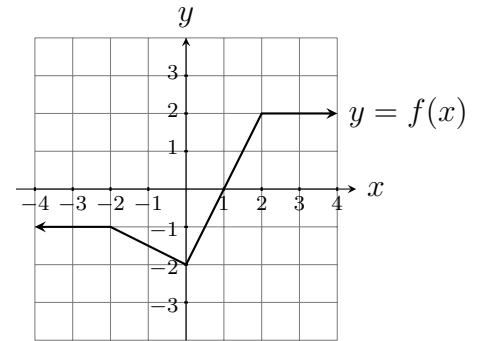
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1. Answer the questions about the function  $f(x)$  graphed below.

(a)  $\int_{-3}^0 f(x) dx =$

(b)  $\int_0^3 f(x) dx =$

(c) Suppose  $\int_0^7 f(x) dx = 3$ . Find  $\int_3^7 f(x) dx$ .

2. Find  $\int_{-1}^1 5\sqrt{1-x^2} dx$  by considering area.3. Write  $\lim_{n \rightarrow \infty} \sum_{k=1}^n \ln\left(1 + \frac{4k}{n}\right) \frac{4}{n}$  as a definite integral.

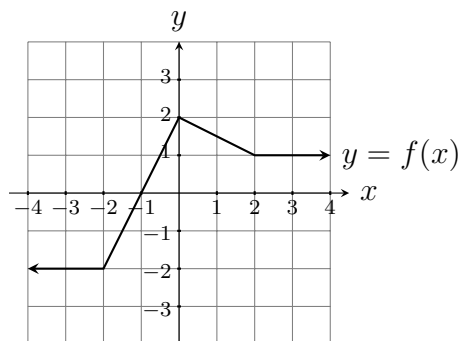
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1. Answer the questions about the function  $f(x)$  graphed below.

(a) 
$$\int_{-3}^0 f(x) dx =$$

(b) 
$$\int_0^4 f(x) dx =$$

(c) Suppose  $\int_0^7 f(x) dx = 10$ . Find  $\int_4^7 f(x) dx$ .

2. Find  $\int_0^1 5\sqrt{1-x^2} dx$  by considering area.3. Write  $\lim_{n \rightarrow \infty} \sum_{k=1}^n \frac{1}{2 + \frac{5k}{n}} \cdot \frac{5}{n}$  as a definite integral.