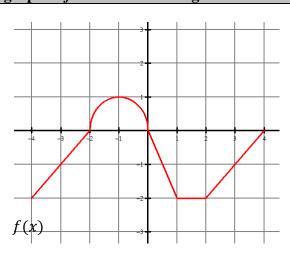
Corrective

The graph of f consists of line segments and a semicircle. Evaluate each definite integral.



$$(a)\int_{-4}^{-2}f(x)dx=$$

$$(d)\int\limits_{-4}^4 f(x)dx=$$

$$(b)\int\limits_{-2}^{0}4f(x)dx=$$

$$(e)\int_{4}^{2}f(x)dx=$$

$$(c)\int\limits_{1}^{0}f(x)dx=$$

$$(f)\int\limits_{-1}^1 f(x)dx=$$

f(x)

$$(a)\int\limits_0^6 2f(x)dx =$$

$$(d)\int\limits_{0}^{12}f(x)dx=$$

$$(b)\int\limits_{10}^{12}f(x)dx=$$

$$(e)\int\limits_{9}^{8}f(x)dx=$$

$$(c)\int\limits_{10}^{6}f(x)dx=$$

$$(f)\int\limits_{3}^{5}3f(x)dx=$$

3. Suppose that $\int_{-4}^{6} f(x)dx = 2$ and $\int_{6}^{8} f(x)dx = -5$. Find each integral.

$$(a) \int_{1}^{6} 5f(x)dx = \qquad \qquad (b) \int_{1}^{8} f(x)dx =$$

$$(b) \int_{0}^{8} f(x) dx =$$

$$(c)\int\limits_{0}^{6}f(x)dx=$$

4. Suppose that $\int_0^3 f(x)dx = -4$ and $\int_3^7 f(x)dx = 2$. Find each integral.

$$(a)\int\limits_{2}^{0}f(x)dx=$$

$$(b)\int\limits_{2}^{3}f(x)dx=$$

$$(c)\int_{2}^{7}6f(x)dx=$$

5. Suppose that $\int_{-2}^{1} f(x)dx = 5$ and $\int_{-2}^{5} f(x)dx = 8$. Find each integral.

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

$$(b) \int_{-2}^{1} [-f(x)] dx =$$

$$(c)\int\limits_{1}^{5}f(x)dx=$$

6. Suppose that $\int_{-6}^{-2} f(x)dx = -3$ and $\int_{-6}^{4} f(x)dx = 2$. Find each integral.

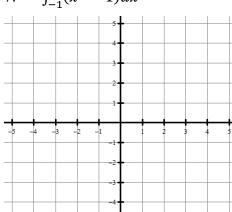
$$(a) \int_{0}^{4} f(x) dx =$$

(a)
$$\int_{-2}^{4} f(x)dx =$$
 (b) $\int_{-2}^{-6} f(x)dx =$

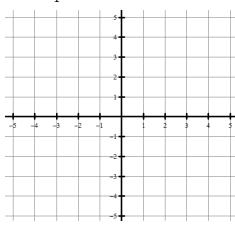
$$(c)\int_{-6}^{4} 5f(x)dx =$$

Sketch a graph of the definite integral without the calculator. Evaluate with the graphing calculator.

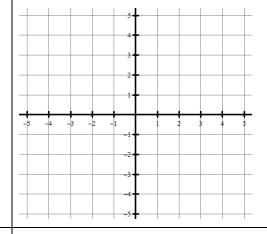
7.
$$\int_{-1}^{0} (x^3 - 1) dx =$$



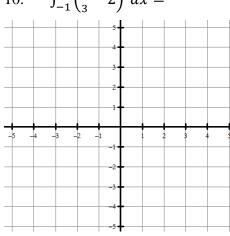
8.
$$\int_{-1}^{2} (5 - x^2) dx =$$



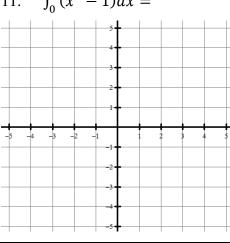
9.
$$\int_{-2}^{3} -|x+1| dx =$$



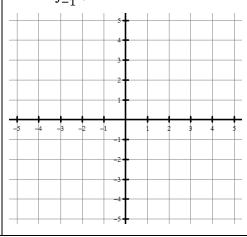
10.
$$\int_{-1}^{3} \left(\frac{x}{3} - 2 \right) dx =$$



11.
$$\int_0^2 (x^2 - 1) dx =$$



12.
$$\int_{-1}^{4} \sqrt{x+3} \, dx =$$

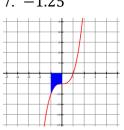


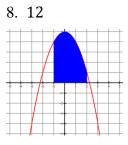
ANSWERS TO CORRECTIVE ASSIGNMENT

- 1.(a) 2
- (b) 2π

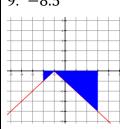
- (c) 5 (d) $\frac{\pi}{2} 7$ (e) 2 (f) $\frac{\pi}{4} 1$
- 2.(a) 24
 - (*b*) 1
 - $(c) 2\pi$
 - (*d*) $2\pi 13$
 - (*e*) 0
 - (f) -12
- 3. (a) 10
 - (b) -3
 - (c) 5
- 4. (a) 4
 - (*b*) 0
 - (c) 12
- 5.(a) 5
 - (b) -5
 - (c) 3
- 6.(a)5
 - (*b*) 3
 - (c) 10

7. -1.25

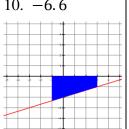




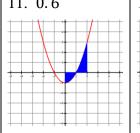
9. -8.5



10. $-6.\overline{6}$



11. $0.\overline{6}$



12. 10.461

