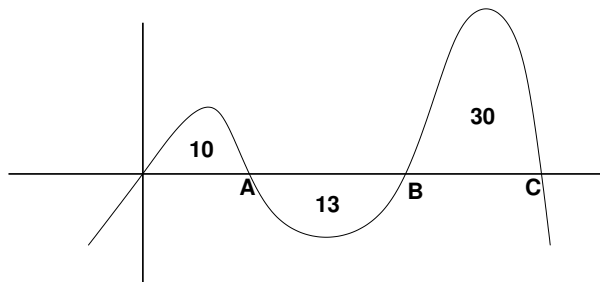


1. Here is the graph of $f(x)$ with the areas of the regions indicated. Evaluate these integrals.



(a) $\int_0^A f(x)dx =$

(b) $\int_A^B f(x)dx =$

(c) $\int_B^C f(x)dx =$

(d) $\int_A^C f(x)dx =$

(e) $\int_0^C f(x)dx =$

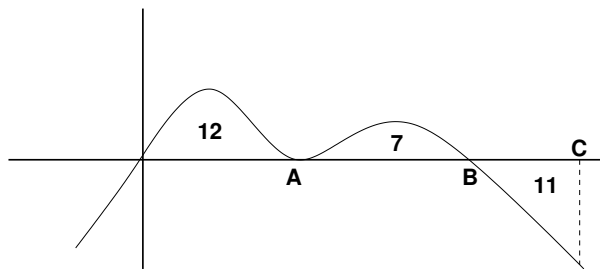
(f) $\int_0^B f(x)dx =$

(f) $\int_0^B g(x)dx =$

Solutions

1. (a) 10
 (b) -13
 (c) 30
 (d) $-13 + 30 = 17$
 (e) $10 - 13 + 30 = 27$
 (f) $10 - 13 = -3$
2. (a) 12
 (b) 7
 (c) -11
 (d) $7 - 11 = -4$
 (e) $12 + 7 - 11 = 8$
 (f) $12 + 7 = 19$

2. Here is the graph of $g(x)$ with the areas of the regions indicated. Evaluate these integrals.



(a) $\int_0^A g(x)dx =$

(b) $\int_A^B g(x)dx =$

(c) $\int_B^C g(x)dx =$

(d) $\int_A^C g(x)dx =$

(e) $\int_0^C g(x)dx =$