

1) Assume that $\int_1^3 f(x) \, dx = 5$ and $\int_1^3 g(x) \, dx = 2$

Find $\int_1^3 [f(x) + g(x)] \, dx$

- (A) 3
 - (B) 10
 - (C) 7
 - (D) -3
-

2) Assume that $\int_1^3 f(x) \, dx = 4$ and $\int_1^3 g(x) \, dx = -1$

Find $\int_1^3 [2f(x) - g(x)] \, dx$

- (A) 9
 - (B) 7
 - (C) 8
 - (D) 6
-

3) Assume that $\int_1^3 f(x) \, dx = 3$ and $\int_1^3 g(x) \, dx = -2$

Find $\int_3^1 [f(x) - 3g(x)] \, dx$

- (A) 9
 - (B) 3
 - (C) -3
 - (D) -9
-

4) Assume that $\int_0^4 f(x) \, dx = 6$ and $\int_0^4 g(x) \, dx = 4$

Find $\int_0^4 \left[\frac{1}{2} f(x) + g(x) \right] \, dx$

(A) 10

(B) 7

(C) 5

(D) 14

5) Assume that $\int_{-1}^2 f(x) \, dx = -2$ and $\int_{-1}^2 g(x) \, dx = 8$

Find $\int_{-1}^2 [4g(x) - f(x)] \, dx$

(A) 30

(B) 26

(C) 10

(D) 34