

Student Name:

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