

NAME _____

1. Let $f(x)$ and $g(x)$ be functions for which all that is known is that

$$\int_1^4 f(x) dx = 7, \int_2^4 f(x) dx = 5, \text{ and } \int_1^4 g(x) dx = 2.$$

Using only this information, compute the following:

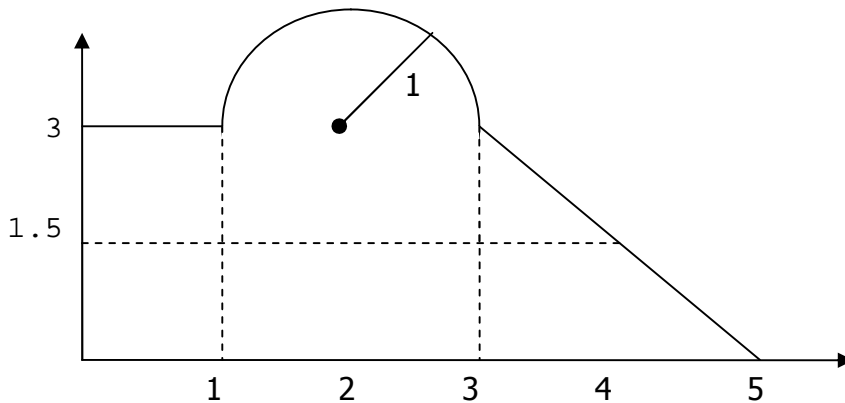
A. $\int_1^4 4 \cdot f(x) dx$

B. $\int_1^4 [g(x) - f(x)] dx$

C. $\int_1^4 [8 \cdot f(x) - 7 \cdot g(x)] dx$

D. $\int_1^2 [-f(x)] dx$

2. Let f be the function whose graph is given.



Compute the following:

A. $\int_0^2 f(x) dx$

B. $\int_1^3 f(x) dx$

C. $\int_0^4 f(x) dx$

D. $\int_0^5 f(x) dx$

E. $\int_4^5 f(x) dx$

F. $\int_2^5 f(x) dx$