

H. Given a function $f(x)$, you are told that

$$\int_0^1 3f(x) \, dx + \int_1^2 2f(x) \, dx = 7,$$
$$\int_0^2 f(x) \, dx + \int_1^2 f(x) \, dx = 1.$$

It follows that $\int_0^2 f(x) \, dx$ equals

- (a) -1 , (b) 0 , (c) $\frac{1}{2}$, (d) 2 .