What is a simpler expression for $\int_2^4 f(x)\,dx + \int_4^7 f(x)\,dx$?

- $\int_2^7 f(x)\,dx$
- $\int_7^2 f(x)\,dx$
- 0
- Cannot be simplified

What is a simpler expression for $\int_2^4 f(x)\,dx + \int_4^2 f(x)\,dx$?

- $2 \cdot \int_2^4 f(x)\,dx$
- $\int_2^2 f(x)\,dx$
- 0
- Cannot be simplified

True or False: If $f(x) > 0$ on $[a, b]$, then $\int_a^b f(x)\,dx > 0$.

True or False: If $\int_a^b f(x)\,dx > 0$, then $f(x) > 0$ on $[a, b]$.