

Sheet #540 Definite Integrals: Rules and Area -- Added Questions

[\[Back\]](#)

For Questions B11–15: Use the same function $f(x)$ as in questions B1–10.

Let $B(x) = \int_4^x f(t)dt$. This is the integral from 4 to x of $f(t)$ with respect to t .

11. Find $B(4)$.

12. Find $B(0)$.

13. Find $B(7)$.

14. What is the relation between $A(x)$ and $B(x)$? $A(x)$ is given in Question B8.

15. What is $B'(4)$? Why? Look back at the graph of $f(x)$ and the answer in Question B10.

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