The table gives values of a function f. Use a left Riemann sum with the 4 subintervals shown to approximate ∫ from 0 to 8 of f(x) dx.

x	0	2	4	6	8
f(x)	5	3	0	0	1

The function f is increasing on [0, 5]. Will a right Riemann sum with n = 8 overestimate or underestimate ∫ from 0 to 5 of f(x) dx? (A) overestimate (B) underestimate

The table gives values of a function f. Use a right Riemann sum with the 3 subintervals shown to approximate ∫ from 2 to 8 of f(x) dx.

x	2	4	6	8
f(x)	6	12	16	22

The function f is decreasing on [3, 10]. Will a right Riemann sum with n = 4 overestimate or underestimate ∫ from 3 to 10 of f(x) dx? (A) overestimate (B) underestimate

The table gives values of a function f. Use a right Riemann sum with the 4 subintervals shown to approximate ∫ from 0 to 4 of f(x) dx.

x	0	1	2	3	4
f(x)	9	8	10	15	14

The function f is decreasing on [1, 5]. Will a right Riemann sum with n = 6 overestimate or underestimate ∫ from 1 to 5 of f(x) dx? (A) overestimate (B) underestimate

The table gives values of a function f. Use a right Riemann sum with the 3 subintervals shown to approximate ∫ from 2 to 5 of f(x) dx.

x	2	3	4	5
f(x)	8	10	12	17

The function f is decreasing on [1, 9]. Will a left Riemann sum with n = 5 overestimate or underestimate ∫ from 1 to 9 of f(x) dx? (A) overestimate (B) underestimate

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ANSWER

A

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ANSWER

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ANSWER

B

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ANSWER

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ANSWER

B

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ANSWER

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ANSWER

A

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ANSWER

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