

Math Sheet

Name _____ Score _____ Teacher _____ Date _____

Riemann Sum Tables

Use the table and the stated sampling method to find the exact Riemann-sum area estimate.

1. Left endpoint sum on $[-6, -4]$ with 4 rectangles

f is nonnegative on this interval. Find the exact area estimate.

x	-6	-23/4	-11/2	-21/4	-5	-19/4	-9/2	-17/4	-4
$f(x)$	6	10	6	2	6	5	12	2	1

Width: _____ Sum: _____

2. Right endpoint sum on $[-3, -1]$ with 4 rectangles

f is nonnegative on this interval. Find the exact area estimate.

x	-3	-11/4	-5/2	-9/4	-2	-7/4	-3/2	-5/4	-1
$f(x)$	8	3	6	9	4	2	12	1	11

Width: _____ Sum: _____

3. Right endpoint sum on $[-4, -3/2]$ with 5 rectangles

f is nonnegative on this interval. Find the exact area estimate.

x	-4	-15/4	-7/2	-13/4	-3	-11/4	-5/2	-9/4	-2	-7/4	-3/2
$f(x)$	5	12	6	7	2	9	8	11	6	10	10

Width: _____ Sum: _____

4. Left endpoint sum on $[3, 11/2]$ with 5 rectangles

f is nonnegative on this interval. Find the exact area estimate.

x	3	13/4	7/2	15/4	4	17/4	9/2	19/4	5	21/4	11/2
$f(x)$	9	8	10	0	4	9	1	2	6	8	0

Width: _____ Sum: _____

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Riemann Sum Tables

Use the table and the stated sampling method to find the exact Riemann-sum area estimate.

5. Left endpoint sum on [1, 9] with 4 rectangles

f is nonnegative on this interval. Find the exact area estimate.

x	1	2	3	4	5	6	7	8	9
$f(x)$	6	7	8	6	4	3	5	10	5

Width: _____ Sum: _____

6. Left endpoint sum on [-6, -1] with 5 rectangles

f is nonnegative on this interval. Find the exact area estimate.

x	-6	-11/2	-5	-9/2	-4	-7/2	-3	-5/2	-2	-3/2	-1
$f(x)$	0	7	12	6	9	10	11	6	6	7	7

Width: _____ Sum: _____

7. Right endpoint sum on [3, 5] with 4 rectangles

f is nonnegative on this interval. Find the exact area estimate.

x	3	13/4	7/2	15/4	4	17/4	9/2	19/4	5
$f(x)$	11	12	9	9	12	9	3	4	7

Width: _____ Sum: _____

8. Right endpoint sum on [1, 17/2] with 5 rectangles

f is nonnegative on this interval. Find the exact area estimate.

x	1	7/4	5/2	13/4	4	19/4	11/2	25/4	7	31/4	17/2
$f(x)$	10	1	3	12	0	2	11	1	8	1	12

Width: _____ Sum: _____

