

AP Calculus AB – Unit 5



3. $h(x) = \frac{2}{x}$ from $x = 1$ to $x = 3$ with 3 trapezoids of equal width.

4. Use the table of values to approximate the area of $f(x)$ over $[3, 9]$ with 3 trapezoids of non-uniform length.

x	3	5	6	9
$f(x)$	0	4	6	2

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5. Use the table of values to approximate the area of $f(x)$ over $[-4, 4]$ with 4 trapezoids.

x	-4	-2	0	2	4
$f(x)$	10	8	5	5	-1

6. Given $y(1) = 5$, $y(5) = 3$, $y(6) = 0$, and $y(8) = 7$, approximate the area of y over $[1, 8]$ using 3 trapezoids of non-uniform length.