

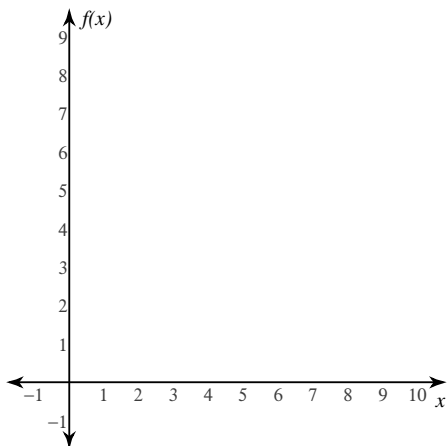
Riemann Sum Tables

Date _____ Period _____

For each problem, use a left-hand Riemann sum to approximate the integral based off of the values in the table. You may use the provided graph to sketch the function data and Riemann sums.

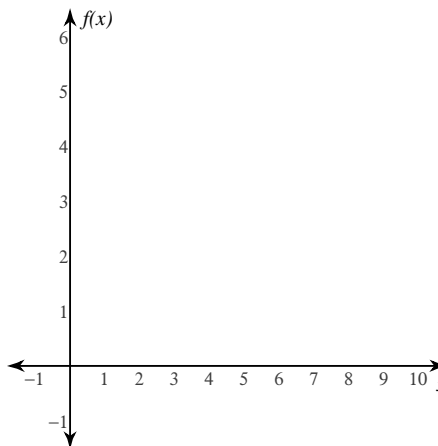
1) $\int_0^{10} f(x) dx$

| | | | | | |
|--------|---|---|---|---|----|
| x | 0 | 2 | 5 | 7 | 10 |
| $f(x)$ | 2 | 3 | 5 | 7 | 8 |



2) $\int_0^{10} f(x) dx$

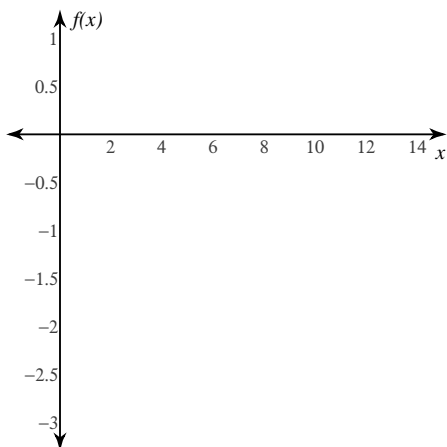
| | | | | | |
|--------|---|---|---|---|----|
| x | 0 | 4 | 6 | 7 | 10 |
| $f(x)$ | 5 | 3 | 2 | 3 | 5 |



For each problem, use a right-hand Riemann sum to approximate the integral based off of the values in the table. You may use the provided graph to sketch the function data and Riemann sums.

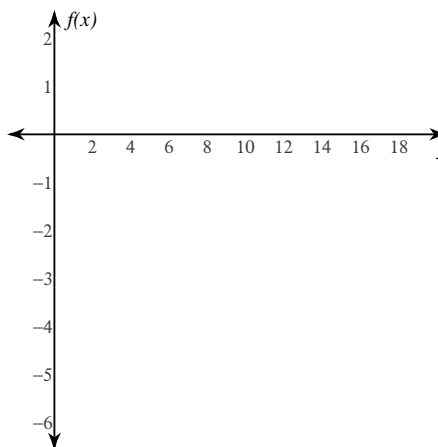
3) $\int_0^{14} f(x) dx$

| | | | | | | |
|--------|----|----|----|---|----|----|
| x | 0 | 3 | 5 | 9 | 13 | 14 |
| $f(x)$ | -1 | -2 | -1 | 0 | -1 | 0 |



4) $\int_0^{19} f(x) dx$

| | | | | | | |
|--------|----|----|----|----|----|----|
| x | 0 | 4 | 9 | 10 | 12 | 19 |
| $f(x)$ | -3 | -5 | -4 | -2 | -1 | 1 |

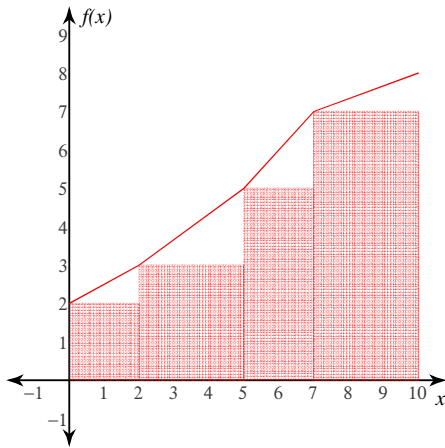


Riemann Sum Tables

For each problem, use a left-hand Riemann sum to approximate the integral based off of the values in the table. You may use the provided graph to sketch the function data and Riemann sums.

1) $\int_0^{10} f(x) dx$

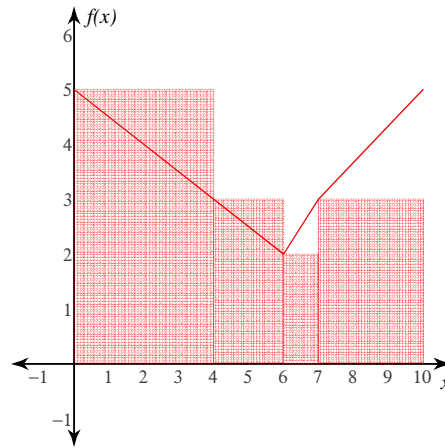
| | | | | | |
|--------|---|---|---|---|----|
| x | 0 | 2 | 5 | 7 | 10 |
| $f(x)$ | 2 | 3 | 5 | 7 | 8 |



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2) $\int_0^{10} f(x) dx$

| | | | | | |
|--------|---|---|---|---|----|
| x | 0 | 4 | 6 | 7 | 10 |
| $f(x)$ | 5 | 3 | 2 | 3 | 5 |

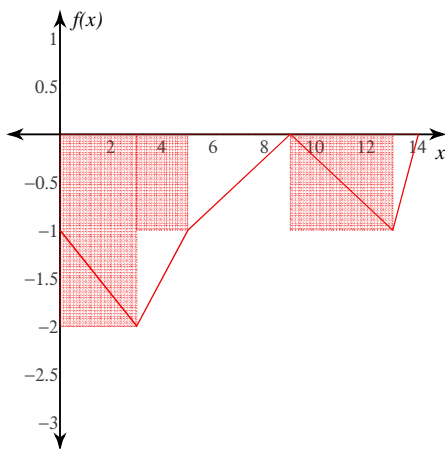


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For each problem, use a right-hand Riemann sum to approximate the integral based off of the values in the table. You may use the provided graph to sketch the function data and Riemann sums.

3) $\int_0^{14} f(x) dx$

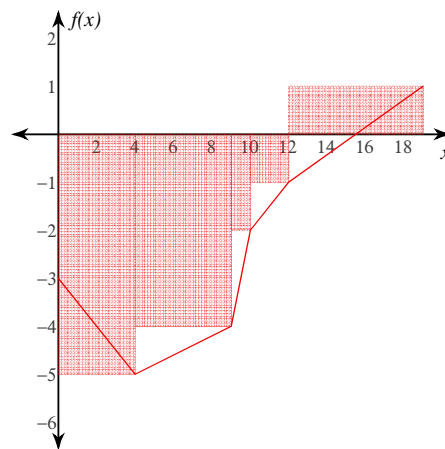
| | | | | | | |
|--------|----|----|----|---|----|----|
| x | 0 | 3 | 5 | 9 | 13 | 14 |
| $f(x)$ | -1 | -2 | -1 | 0 | -1 | 0 |



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4) $\int_0^{19} f(x) dx$

| | | | | | | |
|--------|----|----|----|----|----|----|
| x | 0 | 4 | 9 | 10 | 12 | 19 |
| $f(x)$ | -3 | -5 | -4 | -2 | -1 | 1 |



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