Riemann Sums Worksheet

Find each integral using the indicated Riemann sum method.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| x | 1 | 3 | 5 | 7 | 9 | 11 | 13 | 15 | 17 |
| F(x) | 78 | 81 | 99 | 102 | 95 | 61 | 54 | 67 | 85 |

1. Right bound n = 5
2. Left bound Riemann sum n = 5
3. Midpoint Riemann sum n = 4
4. Trapezoidal Riemann sum n = 6
5. Trapezoidal Riemann sum n = 5
6. Trapezoidal Riemann sum n = 5
7. Trapezoidal Riemann sum n = 5

2. Calculator Active:

F(x) = sin 2x.

Find each integral using the indicated Riemann Sum. Use 3 decimal places throughout the problem.

1. Right Bound Riemann Sum n = 4
2. Left Bound Riemann Sum n = 5