

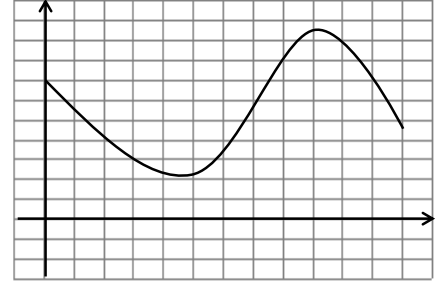
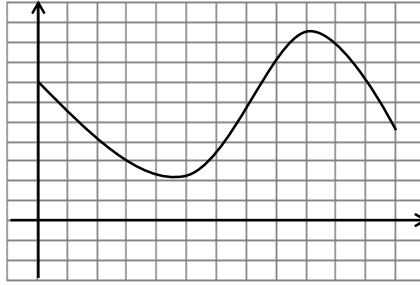
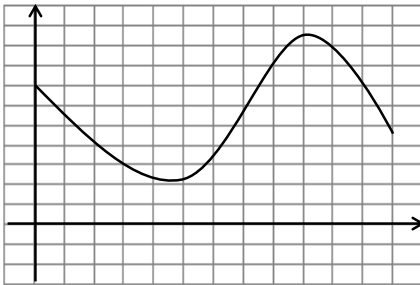
Approximate Using Trapezoids

1. Answer the following given the graph :

A. T_4

B. T_6

C. T_{12}



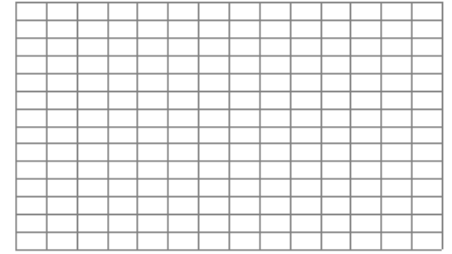
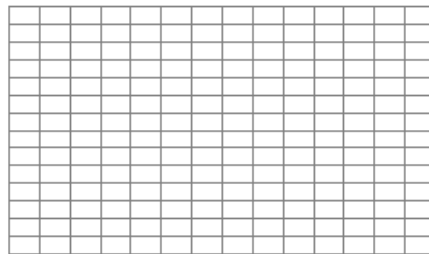
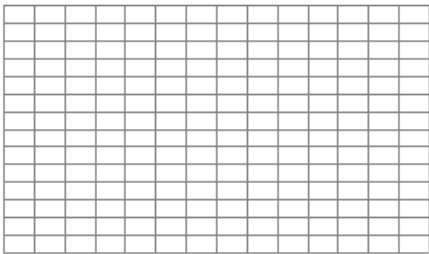
2. Answer the following given the table

$t(s)$	0	.5	1	1.5	2	2.5	3
$v(ft./s)$	0	5	15	20	15	10	5

A. T_1

B. T_3

C. T_6

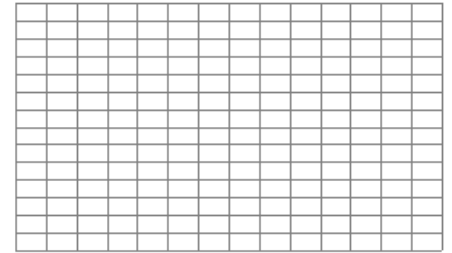
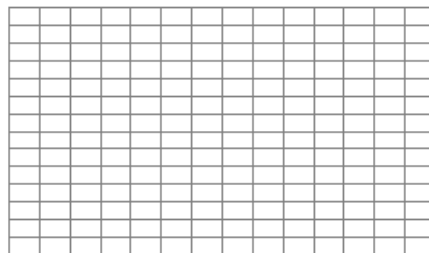
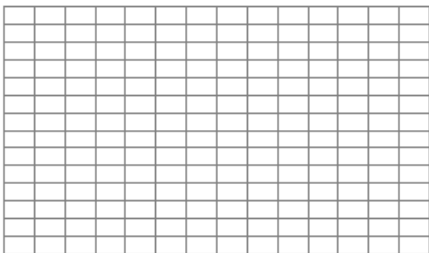


3. Let $f(x) = x^2 + 1$, $[0, 3]$

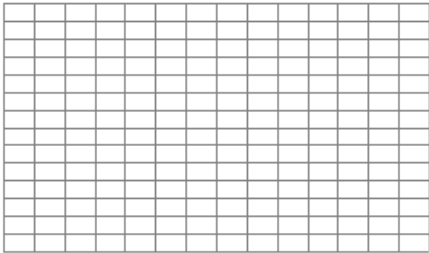
A. R_3

B. L_3

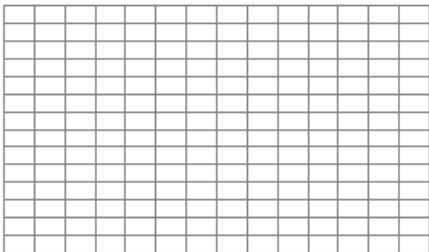
C. T_3



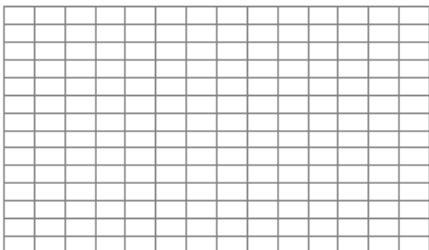
4. $\int_0^4 \sqrt{x} dx, T_4$



5. $\int_1^4 \frac{dx}{x}, T_6$



6. $\int_0^1 e^{-x^2} dx, T_6$

**Answers:**

1-Answers may vary

a.) $T_4 \approx 65.7$

b.) $T_6 \approx 66.1$

c.) $T_{12} \approx 66.55$

2-Answers must be the same

a.) $T_1 \approx 7.5$

b.) $T_3 \approx 32.5$

c.) $T_6 \approx 33.75$

3-Answers must be the same

a.) $R_3 \approx 17$

b.) $L_3 \approx 8$

c.) $T_3 \approx 12.5$

4-6: Answers must be the same.

4- $T_4 \approx 5.1463$

5- $T_6 \approx 1.4054$

6- $T_6 \approx 1.1177$