

Complete the chart:

Definite Integral	Limit of Riemann Sum
1. $\int_0^6 \sqrt{2x+1} dx$	
2. $\int_{-2}^3 x^2 - 3 dx$	
3. $\int_1^6 3x - 4 dx$	
4. $\int_{-2}^4 x^3 dx$	
5.	$\lim_{n \rightarrow \infty} \sum_{i=1}^n \left[\sqrt{\left(-2 + \frac{2i}{n}\right)^2 + 1} \right] \frac{2}{n}$
6.	$\lim_{n \rightarrow \infty} \sum_{i=1}^n \left[5\left(2 + \frac{4i}{n}\right) + 7 \right] \frac{4}{n}$
7.	$\lim_{n \rightarrow \infty} \sum_{i=1}^n \left[6\left(\frac{4i}{n}\right)^2 - 2 \right] \frac{4}{n}$
8.	$\lim_{n \rightarrow \infty} \sum_{i=1}^n \left[\left(1 + \frac{2i}{n}\right)^3 - 1 \right] \frac{2}{n}$

3. The graph of $f(x)$ is shown. Evaluate each integral by interpreting it in terms of areas.

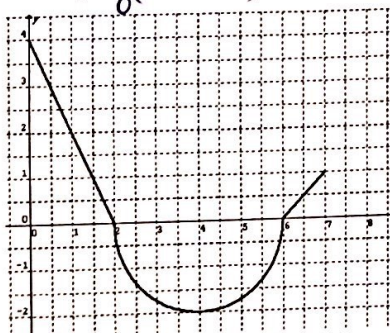
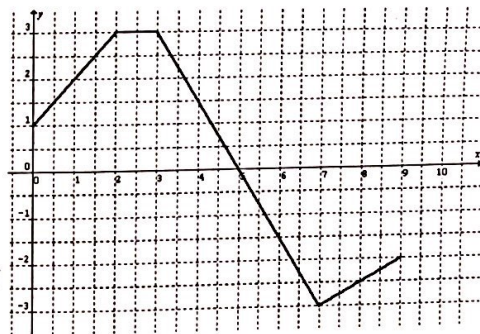
a) $\int_0^2 f(x) dx$

b) $\int_0^5 f(x) dx$

c) $\int_5^7 f(x) dx$

d) $\int_0^9 f(x) dx$ e) $\int_0^9 |f(x)| dx$

f) $\int_0^2 (f(x) + 4) dx$



4. The graph of $g(x)$ is shown. Evaluate each integral by interpreting it in terms of areas.

a) $\int_0^2 g(x) dx$

b) $\int_2^6 g(x) dx$

c) $\int_2^0 g(x) dx$

d) $\int_0^7 g(x) dx$

e) $\int_2^4 g(x+2) dx$

f) $\int_2^6 (3g(x) + 1) dx$