Apply Your Understanding of Summation Notation

In the chart below, the limit of a Riemann sum has been provided for you. Write the corresponding definite integral.

	Definite Integral	Limit of Riemann Sum
1.	$\int_0^4 \sqrt{2x+1}\,dx$	$\lim_{n\to\infty}\sum_{i=1}^{n}\left[\sqrt{2\left(\frac{6}{n}\right)+1}\right]\frac{6}{n}$
2.	$\int_{-2}^{3}(x^2-3)\,dx$	$\lim_{n\to\infty}\sum_{i=1}^{n}\left[\left(-2+\frac{5i}{n}\right)^2-3\right]\frac{5}{n}$
3.	$\int_1^4(3x-4)\,dx$	$\lim_{n\to\infty}\sum_{i=1}^{n}\left[3\left(1+\frac{5i}{n}\right)-4\right]\frac{5}{n}$
4.	$\int_{-2}^{4} x^3\,dx$	$\lim_{n\to\infty}\sum_{i=1}^{n}\left[\left(-2+\frac{6i}{n}\right)^3\right]\frac{6}{n}$
5.	$\int_{-2}^{0}\sqrt{x^2+1}\,dx$	$\lim_{n\to\infty}\sum_{i=1}^{n}\left[\sqrt{\left(-2+\frac{2i}{n}\right)^2+1}\right]\frac{2}{n}$
6.	$\int_2^6 5x+7\,dx$	$\lim_{n\to\infty}\sum_{i=1}^{n}\left[5\left(2+\frac{4i}{n}\right)+7\right]\frac{4}{n}$
7.	$\int_0^4 6x^2-2\,dx$	$\lim_{n\to\infty}\sum_{i=1}^{n}\left[6\left(\frac{4i}{n}\right)^2-2\right]\frac{4}{n}$
8.	$\int_1^3 x^3-1\,dx$	$\lim_{n\to\infty}\sum_{i=1}^{n}\left[\left(1+\frac{2i}{n}\right)^3-1\right]\frac{2}{n}$