

Evaluate each definite integral and look at a graph to check if your answer is plausible

1. $\int_{-1}^5 x + \sin(x) dx$

2. $\int_1^4 \frac{1}{3}x^2 - \frac{1}{x^2} - \frac{1}{x} dx$

3. $\int_2^6 \sqrt{x} - \sin(x) dx$

4. $\int_0^\pi \cos(x)^3 dx$

5. $\int_{-2}^3 e^x \sin(x) + e^x \cos(x) dx$

6. $\int_0^3 2x \cos(x^2) dx$

7. $\int_{-1}^2 x^2 \sin(x^3) dx$

8. $\int_0^2 \sin(x^3) dx$