

Calc AB**6.2 Evaluating Definite Integrals**

Use the graph of the integrand and areas to evaluate the integral (NO Calculator).

1. $\int_{-3}^3 \sqrt{9-x^2} dx$

2. $\int_{-3}^4 |x| dx$

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

4. $\int_{\pi}^{2\pi} \theta d\theta$

5. $\int_0^b x dx, 0 < b$

6. $\int_a^b 2s ds, 0 < a < b$

7. $\int_{-3}^5 \frac{x^2-4}{x+2} dx$

8. $\int_{-2}^5 |x| - 2 dx$

9. $\int_{-2}^5 \frac{(x+1)(x-3)}{x-3} dx$

10. $\int_{-2}^3 \frac{|x|}{x} dx$