

***Evaluate***

1.  $\int_{-2}^2 (3x^4 - 2x + 1) dx$

2.  $\int_0^1 (4x^{21} - 2x^{16} + 1) dx$

Compute the area of the region bounded by the graph of  $f$  and the  $x$ -axis on the given interval.

3.  $f(x) = 16 - x^2$  on  $[-4, 4]$

4.  $f(x) = x^3 - x$  on  $[-1, 0]$

5.  $f(x) = x^2 - x$  on  $[0, 3]$

6.  $f(x) = x^4 - x^2$  on  $[-1, 1]$