

## Homework 7

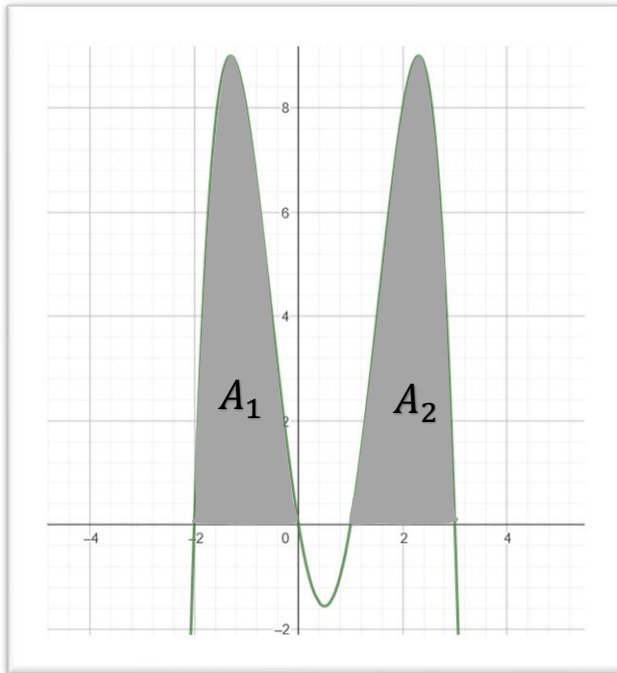
1. Evaluate the definite integral.

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

$$(b) \int_0^5 |2x - 5| dx$$

2. Find the area of the given region.

$$y = -x^4 + 2x^3 + 5x^2 - 6x$$



3. Evaluate the definite integral

$$(a) \int_1^2 x^3 \sqrt{x^4 + 5} dx$$

$$(b) \int_0^{15} x \sin\left(\frac{-x^2}{2}\right) dx$$