Homework 6

1. Find the indefinite integral

    (a)

    $$\int \frac{x^4 - 3x^2 + 5}{x^4} dx$$

    (b)

    $$\int (\sec x)(\tan x - \sec x) \; dx$$

2. Use the limit process to find the area of the region between the graph of the function and the y-axis over the given y-interval.

    $$f(y) = y^2 \; , 0 \le y \le 5$$