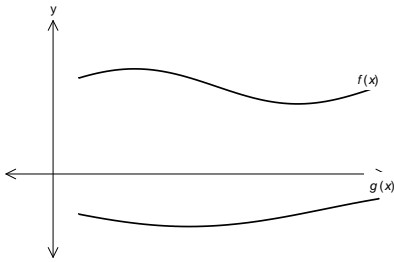
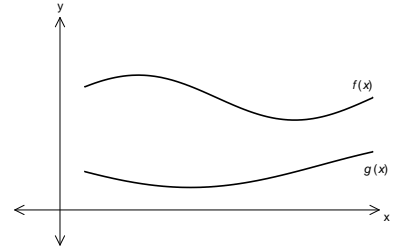
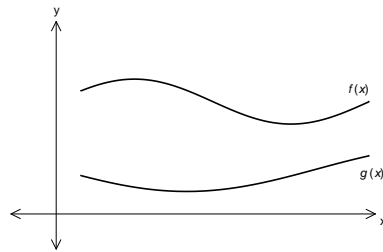
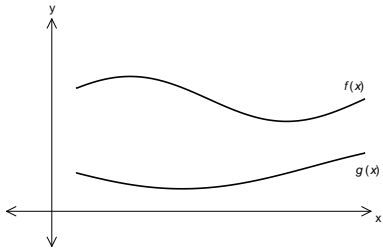
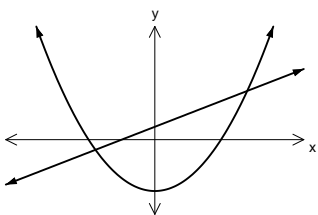
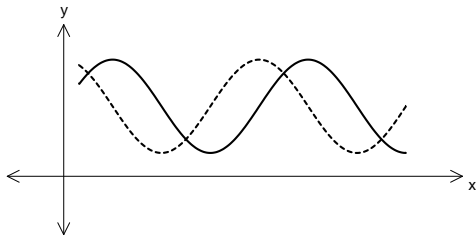


AP Calculus

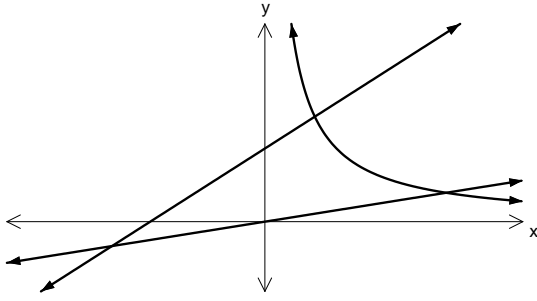
5.1 - Area Between Curves



Area between intersecting curves



Area bounded by more than 2 curves



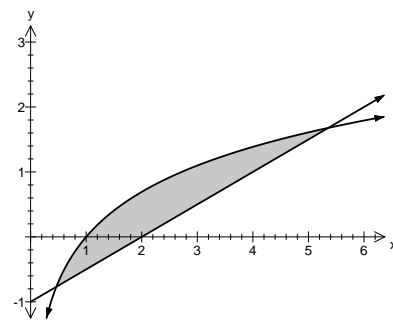
Find the area bounded by the 3 functions and y-axis.

Examples

1. Determine the area bounded by the functions: $f(x) = 2x - x^2$ and $g(x) = x^2$. (NC)

2. Determine the area bounded by the functions: $f(x) = \frac{x}{2}$ and $g(x) = \sqrt{x}$. (NC)

3. The graph shows the area between the two functions, $H(x) = \ln x$ and $J(x) = \frac{1}{2}x - 1$. Determine the value of the area. (GC)



4. The graph shows two regions R and S bounded by the graphs of $y = e^{3x-x^3}$, $y = 3$, $y = 5$. Determine the area of R and S. (GC)

