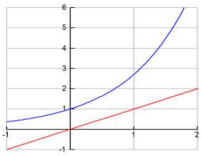
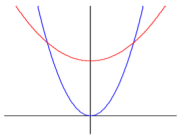
AP Calculus
7.1 notes

If f and g are continuous on $[a, b]$ and $f(x) > g(x)$ on all x on $[a, b]$, then the area bounded by $f(x)$ and $g(x)$ is

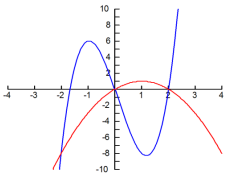
Ex: 1. Find the area bounded by $y = e^x$, $y = x$, $x = 0$ and $x = 1$.



Ex: 2. Find the area bounded by $y = 4x^2$ and $y = x^2 + 3$

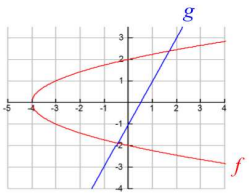


Ex: 3. Find the area bounded by $f(x) = 3x^3 - x^2 - 10x$ and $g(x) = -x^2 + 2x$



<u>Day 2</u>

How would you find the area between g and f ?



Ex: Find the area between the following curves. $x = 3 - y^2$ and $g(y) = y + 1$ *(first, sketch a picture)*