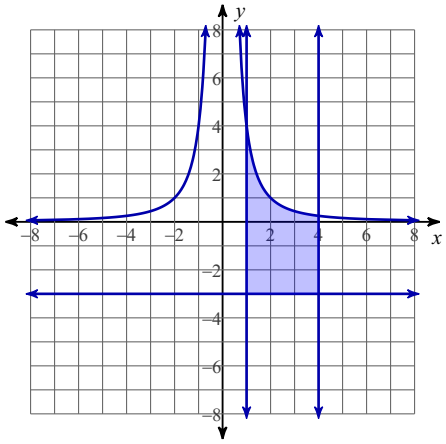
AP Calculus AB Name_____ ID: 1

Hwk Find the Area between Curves

Date_____ Period____

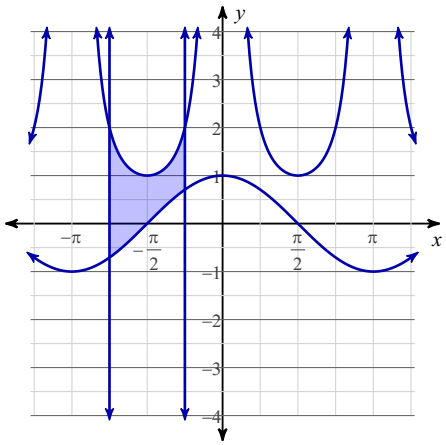
For each problem, find the area of the region enclosed by the curves. Clearly set up your starting integral and find your upper bound and lower bound!

1) $y = \frac{4}{x^2}$, $y = -3$,
$x = 1$, $x = 4$



For each problem, find the area of the region enclosed by the curves. Clearly set up your starting integral and find your upper bound and lower bound! ...now sinusoidals.

2) $y = \csc^2 x$, $y = \cos x$,
$x = -\frac{3\pi}{4}$, $x = -\frac{\pi}{4}$



For each problem, find the area of the region enclosed by the curves. ....watch out for the points where the top and bottom curves switch positions.

3) $y = -x^2 - 2x + 3$, $y = -x^2 + 5$,
$x = -3$, $x = 2$