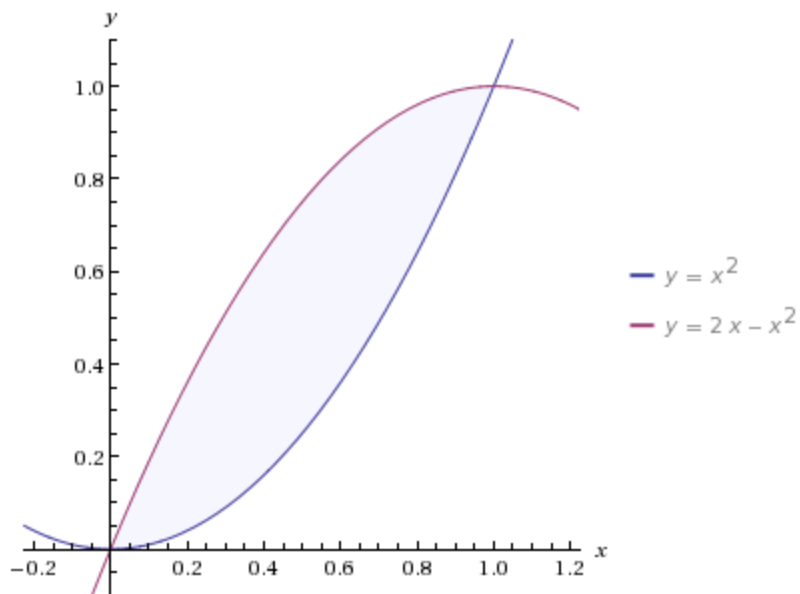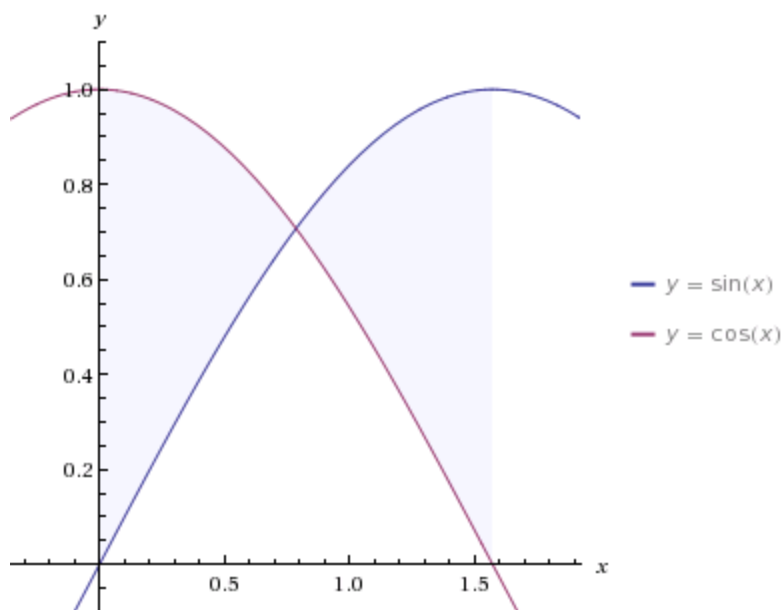# Areas Between Curves

A. Find the area of the region enclosed by the parabolas $y = x^2$ and $y = 2x - x^2$.

B. Find the area of the butterfly-shaped region bounded by the curves $y = \sin x$, $y = \cos x$, $x = 0$, and $x = \pi/2$.

C. Find the area enclosed by the line $y = x - 1$ and the parabola $y^2 = 2x + 6$.