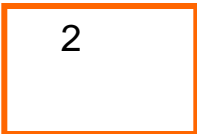
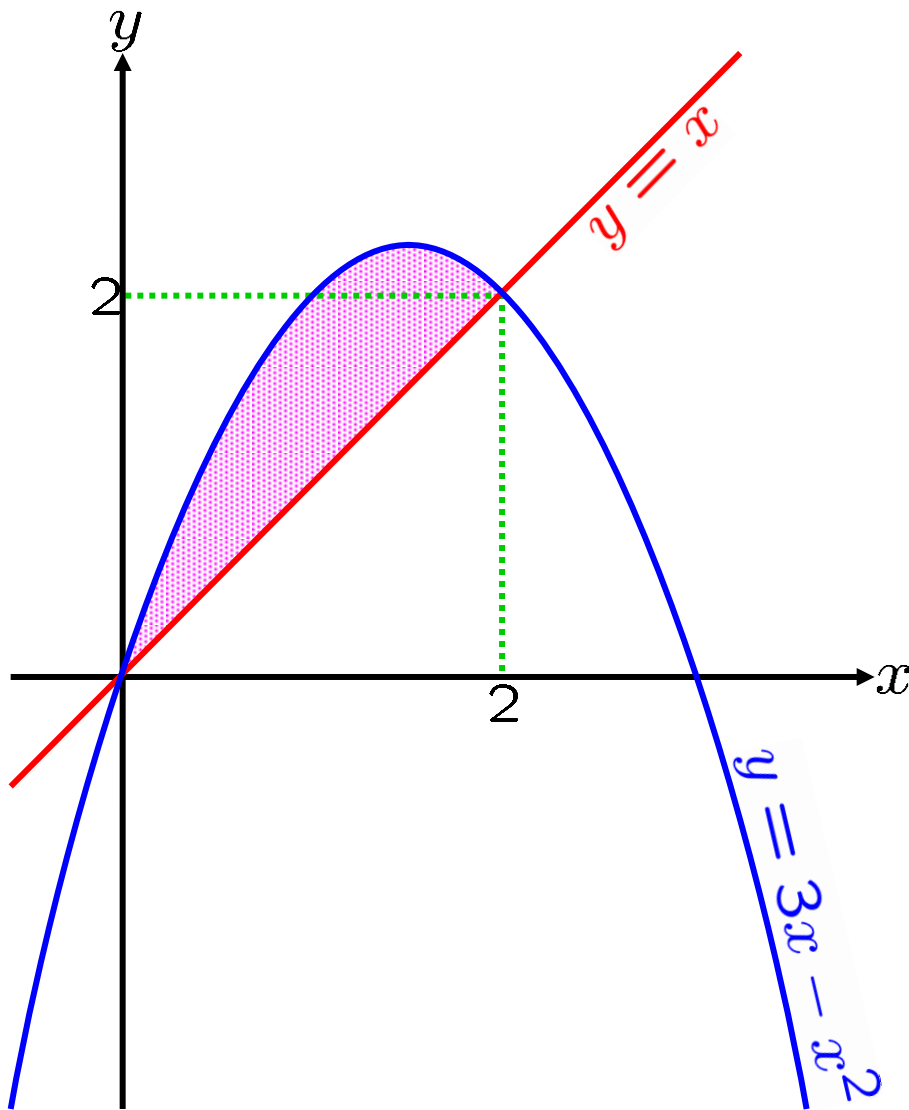


CALCULUS
Area between curves:
Problems
OLD2

0690-1. Compute the shaded area shown in the picture below.
OLD2



^{OLD2} 0690-2. Let R be the region enclosed inside
 $y = e^{2x}$, $y = x + 4$, $x = -0.5$ and $x = 0.75$.

a. Sketch the region R .

b. Compute the area of the region R .

^{OLD2} 0690-3. Let R be the region enclosed inside
 $y = 2 \tan(\pi x/4)$, $y = 2x$ and $0 \leq x \leq 1$.

a. Sketch the region R .

b. Compute the area of the region R .

^{OLD2} 0690-4. Let R be the region enclosed inside
 $y = 4x^2$ and $y = 10x - 6$.

a. Sketch the region R .

b. Compute the area of the region R .

0690-5. Let $f(x) = e^{-x^2/35}$ and let $g(x) = -x$.
OLD2 Estimate the area of the region bounded by
 $y = f(x)$, $y = g(x)$, $x = 4$ and $x = 7$
by computing $R_3S_4^7(f - g)$.