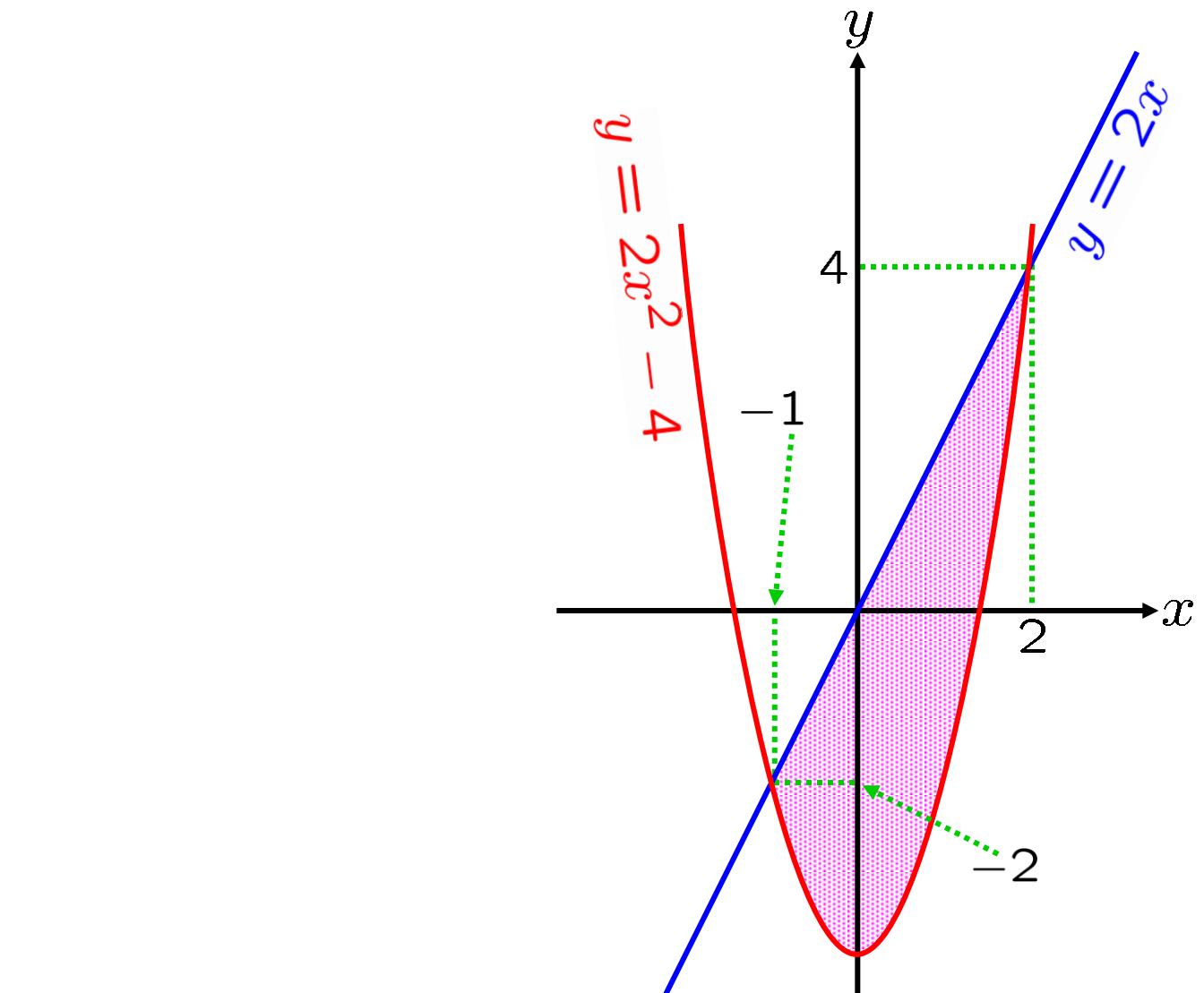


CALCULUS
Area between curves:
Problems
NEW

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



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

a. Sketch the region R .

b. Compute the area of the region R .

0690-3. Let R be the region enclosed inside
NEW $y = 2 \sin(\pi x/6)$, $y = x$ and $x \geq 0$.

a. Sketch the region R .

b. Compute the area of the region R .

0690-4. Let R be the region enclosed inside
NEW $y = x^2$ and $y = 2x + 8$.

a. Sketch the region R .

b. Compute the area of the region R .

0690-5. Let $f(x) = e^{-x^2/10}$ and let $g(x) = -x$.
NEW
Estimate the area of the region bounded by
 $y = f(x)$, $y = g(x)$, $x = 2$ and $x = 8$
by computing $R_3 S_2^8(f - g)$.