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 $y = e^{-x}$, $y = -x$, $x = -0.5$ and $x = 0.25$.
   a. Sketch the region $R$.
   b. Compute the area of the region $R$.

0690-3. Let $R$ be the region enclosed inside $y = \sqrt{3}\tan(\pi x / 3)$, $y = 3x$ and $0 \leq x \leq 1$.
   a. Sketch the region $R$.
   b. Compute the area of the region $R$.

0690-4. Let $R$ be the region enclosed inside $y = 6x^2$ and $y = 9x - 3$.
   a. Sketch the region $R$.
   b. Compute the area of the region $R$. 
Let \( f(x) = e^{-x^2/35} \) and let \( g(x) = -x \). Estimate the area of the region bounded by \( y = f(x), y = g(x), x = 4 \) and \( x = 7 \) by computing \( L_3S_4^7(f - g) \).