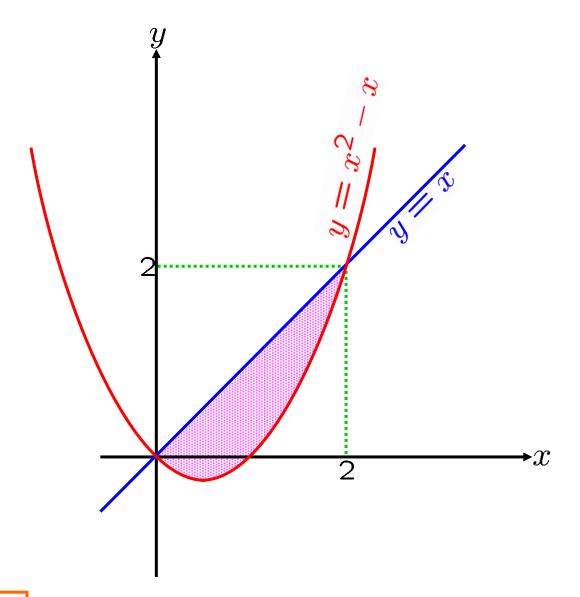
CALCULUS Area between curves: Problems NEW 0690-1. Compute the shaded area shown in the picture below.



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

NEW $y = \sqrt{3} \tan(\pi x/3)$, y = 3x and $0 \le x \le 1$. a. Sketch the region R. b. Compute the area of the region R.

 O690-5. 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 = 7by computing $L_3S_4^7(f - g)$.