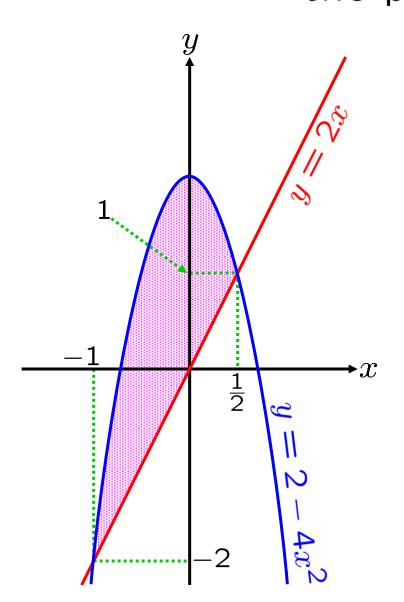
## CALCULUS Area between curves: Problems OID

## 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+2, x=-1 and x=1.

  a. Sketch the region R.
  b. Compute the area of the region R.
- 0690-3. Let R be the region enclosed inside  $y=2\sin(\pi x/2), \quad y=2x \quad \text{and} \quad x\geq 0.$  a. Sketch the region R. b. Compute the area of the region R.
- 0690-4. Let R be the region enclosed inside  $y=x^2$  and y=3x-2.
  - a. Sketch the region R.
  - b. Compute the area of the region R.

O690-5. Let  $f(x) = e^{-x^2/20}$  and let g(x) = -x. Estimate the area of the region bounded by y = f(x), y = g(x), x = 2 and x = 8 by computing  $M_3S_2^8(f - g)$ .