Worksheet

- 1. Find the area of the region between the curves $y = x^2 2$ and y = -x.
- 2. For each b with $1 \le b \le 4$ construct the triangle perpendicular to the x-y plane and with one edge the segment perpendicular to the y-axis at the point (0, b) and with its endpoints on the curve $y = x^2 2$. Find the volume enclosed by these triangles and the planes y = 1 and y = 4