Full name:_____ **Student number:**_____   **Total:** ____ / *10 pts.*

(1) Find the volume of the solid obtained by rotating the region bounded by $x = y^2$ and $y = x^2$ about $y = -1$.

(2) Using the method of cylindrical shells find the volume of the solid obtained by rotating the region bounded by $y = 4 - 2x$, $y = 0$, and $x = 0$ about $x = -1$.

Solution.