Due **Tuesday** 5 Dec, in reci. Show your work.

- 10 1. Consider the region bounded by $y = x^2$, $y = -x^3$ and x = 1, revolved around the vertical axis x = -2. (Ignore the region bounded only by $y = x^2$ and $y = -x^3$ between x = 0 and x = -1.)
 - (a) Sketch the region, including intersection points and the axis of revolution.
 - (b) Set up (but do not evaluate) the integral(s) for the volume of revolution using the washer method.
 - (c) Set up (but do not evaluate) the integral(s) for the volume of revolution using the shell method.