Math 101 – WORKSHEET 7
AREA BETWEEN CURVES

(1) Find the total area of the following planar regions. It will be useful to sketch the region first.
   (a) (Final, 2011) The finite region lying between the curves $y = x$ and $y = x^3$.

   (b) (Final, 2014) The finite region bounded by the two curves $y = \sqrt{2}\cos(x\pi/4)$ and $y = |x|$.

Date: 18/1/2017, Worksheet by Lior Silberman. This instructional material is excluded from the terms of UBC Policy 81.

(2) Find the total area of the following planar regions. It will be useful to sketch the region first.

(a) The finite region bounded by the y-axis, the graph of $y = \arcsin(x)$ and the line $y = \frac{\pi}{2}$.

(b) (Quiz, 2015) The finite region to the left of the y-axis and to the right of the curve $x = y^2 + y$.