1. Use iterated integrals to find the area of the region bounded by y = 1 - x and $y = 3x^2 - 1$

- 2. Sketch the region determined by the bounds and reverse the order of integration
 - (a) $\int_0^3 \int_{x-3}^{-x+3} 1 \, dy \, dx$
 - (b) $\int_0^1 \int_y^{\sqrt[3]{y}} 1 \, dx \, dy$
 - (c) $\int_{-\sqrt{2}}^{0} \int_{0}^{-x^2+2} 1 \, dy \, dx + \int_{0}^{4} \int_{0}^{-\frac{1}{2}x+2} 1 \, dy \, dx$

(You can combine this to one integral!)