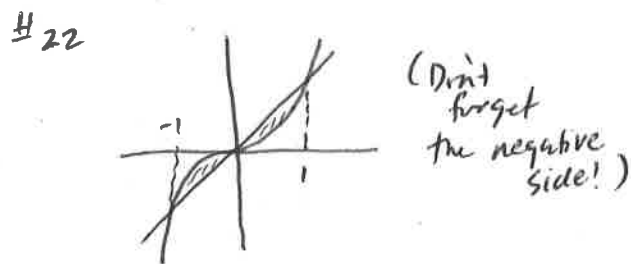
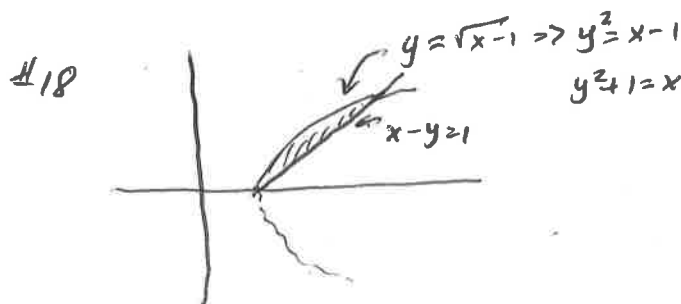
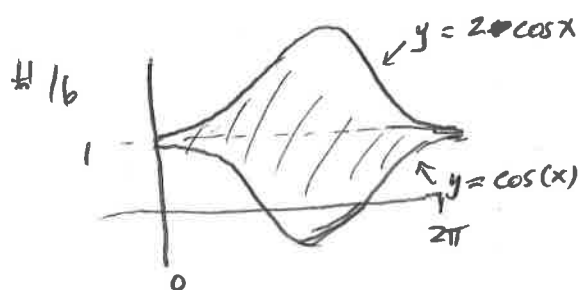
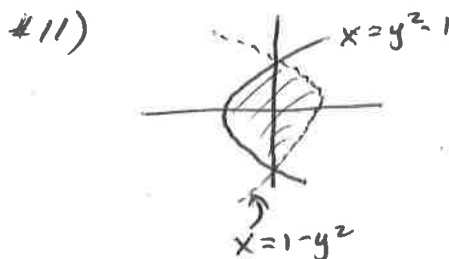


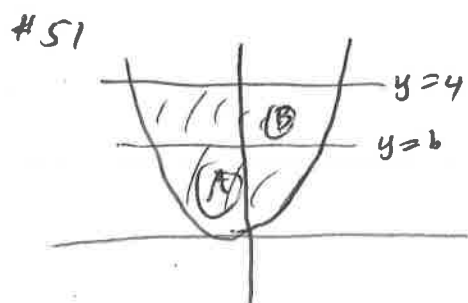
6.1 HW Setups

#2) $\int_0^2 (\sqrt{x+2} - \frac{1}{x+1}) dx$

#4) $\int_0^3 ((2y-y^2) - (y^2-4y)) dy$



#46 The area between curves is $\int_0^{10} |b(t) - d(t)| dt$, so this is the increase in the population over 10 years (≈ 8868)



Find b so that $(A) = (B) = \frac{1}{2}$ total area.
Several ways to set this up! Using symmetry,

$$\int_0^b \sqrt{y} dy = \int_b^4 \sqrt{y} dy$$