Math 46 - Week 2 Discussion The difficulty from the guestion y = 2y+x The equation stems from a typo. y = 2y-x. Dulistate y=XV & y'=V+XV' ta get $V+XU'=\frac{2XU-X}{XV}=\frac{2U-1}{V}$ \Rightarrow $\times V' = \frac{2V-1-V^2}{V} = -\frac{(V-1)^2}{V}$ => - V V = X . Jet W= V-1, du= dv Xx => - u+1 du= x => Ju + 1 dade fx dx => - ln|u| + 1 = ln|x|+c => - ln|v-1| + 1 = ln|x|+c => -ln|y-1+ 1 = ln(x+c)