1. [14 points] Find explicit general, real-valued solutions for each of the following. (Note that minimal partial credit will be given on this problem.)
a. $[7$ points $] \frac{d y}{d x}=-\frac{\cos x}{\sin x} y+\frac{1}{\sin x}$.
b. [7 points] $\frac{d y}{d x}-(x-1) y^{2}=x-1$.
