1. [14 points] Find explicit real-valued general solutions for each of the following. (Note that minimal partial credit will be given on this problem.)
a. $[7$ points $] y^{\prime}=2 x\left(e^{-x^{2}}-y\right)$

$$
y=
$$

b. [7 points] $y^{\prime \prime}=-4 y^{\prime}-13 y$

$$
y=
$$

