Name:

1. [5 pts] Find the general solution for the following differential equation:

$$
\frac{d y}{d t}=8 e^{-4 t-y}
$$

$$
y=
$$

$\qquad$
2. [ $\mathbf{5} \mathbf{~ p t s}$ ] Find the general solution for the following differential equation:

$$
\frac{d a}{d x}=-a^{2} x
$$

$\qquad$

