Quiz 1 - 1/21/20

Name:

1. Determine the general solution x(t) of the separable ODE

$$x' = -x^4,$$

then find the unique solution satisfying x(0) = 1. Both should be explicit functions of t

2. Determine the general solution x(t) of the separable ODE

$$x' = t^2 e^{-x},$$

then find the unique solution satisfying $x(0) = \ln 2$. Both should be explicit functions of t.