1. [15 points] Solve each of the following, finding explicit real-valued solutions as indicated.

   a. [7 points] Find the general solution to $y' = \dfrac{5 + 5s^5 - 5s^4 y}{1 + s^5}$.

   b. [8 points] Solve the initial value problem $R' = (2 - 10z)R^2$, $R(0) = -2$.