5.4 Handout

1. Solve the following diffy-Q's.

   (a) $\dfrac{db}{dt} = 0.001b, \quad b(0) = 1000.$

   (b) $\dfrac{dy}{dt} = t^2 y, \quad y(0) = 1.$

   (c) $\dfrac{df}{dt} = \cos(t)y^2, \quad y(0) = 4.$