Integrating factor solutions
July 20, 2015

(a) integrating factor: $e^{x/2}$ answer: $y = -2e^{-x} + Ce^{-x/2}$

(b) integrating factor: $e^{\ln(t+1)} = t + 1$ answer $z = \frac{t^3/3-t+C}{t+1}$

(c) integrating factor $e^{2\ln(t)} = t^2$ answer: $y = \frac{-t\cos(t) + \sin(t) + (\pi^2/4-1)}{t^2}$