

Score:

Name:

HW1 - Due 02/10/2015
ODE - spring 2015

Solve the following equations

1. $x' + tx^2 = xt$

2. $x' = \cos(x - t)$

3. $x' + \cos(t)x = \sin(t)$

4. $tx' + t^2 + tx - x = 0$

5. $2txdt + (t^2 - x^2)dx = 0$

6. $(t^2 + x^2 + t)dt + xdx = 0$

7. $tx' = x - te^{x/t}$