

Math 105

October 19, 2009

Name: _____

1. Suppose A is a constant. Verify that $x(t) = 1 + t + Ae^t$ is a solution of the differential equation $x' = x - t$.

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1. Suppose A is a constant. Verify that $y(x) = Ae^x - x - 1$ is a solution of the differential equation $yy' = y^2 + xy$.