

MATH 246 Homework 1.2**Justin Wyss-Gallifent**

Directions:

- Work should be done neatly and on separate paper.
 - Enough work must be shown so that the steps you are taking is clear.
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1. Solve the DE given by $y' - 2y = 7$.
2. Solve the DE given by $y' + \left(\frac{5}{t}\right)y = \frac{1}{t}$.
3. Solve the IVP given by $ty' + 2ty = t^2$ with $y(0) = 2$.
4. Solve the IVP given by $y' + y \tan t = \sin t$ with $y(0) = 1$
5. Write down the integral-form solution for the DE given by $y' + (1 + t^2)y = 1 - t$ but do not integrate.