

MTH 376

Homework 4

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Section 4.5

10. yes, $(e^t + t)^2 = e^{2t} + 2te^t + t^2$, so we need to solve three different ODE and then use the superposition principle twice.

20. $y = C_1 \cos 2\theta + C_2 \sin 2\theta + \frac{1}{3}(\sin \theta - \cos \theta)$.

Section 4.6

16. $y = 3t^2 - 5t + \frac{19}{6}$.