

WEEK 7, 8, 9

Selected exercise from text book Differential Equations by Dennis G Zill (7th Edition)

Chapter Problems

2.2: 1-14, 19-26 Separable variables (1st order DE)

2.3: 3-17, 19, 24, 25, 26, 29, 30 Linear equations

2.4: 1-5, 7, 9, 10, 12, 13, 17, 21-26 Exact Equation

3.1: 1-3, 6, 7, 13-17 Modeling with 1st order DE

4.3: 1, 3, 5, 9, 11, 13, 14, 15, 17, 23, 25, 29, 30, 31, 33, 35, 37, 39 Homogeneous linear equations
with constant coefficients

4.4: 1, 3, 5, 7, 17 Undetermined coefficients (Superposition approach) Non-

Homogeneous/Inhomogeneous linear equations