

MAT 120 Exercise Problems
WEEK 7, 8, 9, 10
Selected exercise from text book Differential Equations
by Dennis G Zill (7th Edition)

Chapter	Problems
2.2	1-14, 19-26 – Separable variables (1 st 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
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
3.1	1, 2, 3, 8, 9, 13 - 17 – Linear equations (Modeling with 1 st order DE)