

Math 2326 Assignment Sheet

Textbook: *Calculus Early Transcendental* by Soo T. Tan

- 1) 11.1 Vector-Valued Functions and Space Curves. 2, 6, 9, 11, 12, 13, 16, 21, 25, 33, 35, 36, 38, 40, 41, 43, 45, 46, 53, 54
- 2) 11.2 Differentiation and Integration of Vector-Valued Functions. 3, 6, 7, 11, 14, 17, 20, 22, 25, 30, 33, 39, 49, 50
- 3) 11.3 Arc Length and Curvature. 3, 7, 11, 12, 14, 16, 19, 25, 27, 30, 33, 34, 35, 36, 44
- 4) 10.6 Surfaces in Space. 2, 3, 4, 9, 13-20, 22, 30, 39, 47, 49, 53
- 5) 12.1 Functions of Two or More Variables. 2, 3, 5, 7, 8, 13, 15, 16, 24, 26, 27, 33, 34, 35, 36, 37, 38, 43, 44, 46, 51, 53, 54, 57, 58, 59, 60, 61, 62
- 6) 12.2 Limits and Continuity. 2, 5, 8, 11, 14, 15, 21, 27, 28, 32, 34, 35, 41
- 7) 12.3 Partial Derivatives. 1, 10, 17, 23, 30, 33, 35, 42, 43, 53, 61, 76
- 8) 12.4 Differentials. 1, 5, 8, 23, 25, 31, 33, 37
- 9) 12.5 The Chain Rule. 5, 7, 10, 13, 22, 25, 27, 30, 35, 41, 43, 52
- 10) 12.6 Directional Derivatives and Gradient Vectors. 3, 7, 13, 16, 22, 32, 35, 37, 53, 54
- 11) 12.7 Tangent Planes and Normal Lines. 3, 6, 11, 12, 22, 32, 33, 40
- 12) 12.8 Extrema of Functions of Two Variables. 4, 7, 15, 22, 33, 35, 41, 45, 49
- 13) 12.9 Lagrange Multipliers'. 1, 6, 10, 11, 15, 17, 19, 24, 32, 43
- 14) 13.1 Double Integrals. 1, 3, 7, 13, 16, 19, 25
- 15) 13.2 Iterated Integrals. 2, 5, 10, 13, 16, 22, 27, 31, 35, 38, 51, 54, 59, 62
- 16) 13.3 Double Integrals in Polar Coordinates. 9, 12, 15, 19, 24, 29, 37, 40
- 17) 13.4 Applications of Double Integrals. 3, 9, 13, 25, 26
- 18) 13.5 Surface Area. 3, 6, 9, 11, 14, 24
- 19) 13.6 Triple Double. 6, 9, 12, 13, 19, 27, 30, 44, 51, 57
- 20) 10.7 Cylindrical and Spherical Coordinates. 3, 11, 14, 22, 28, 36, 37, 43, 48, 53, 61, 64, 71
- 21) 13.7 Triple Integrals in Cylindrical and Spherical Coordinates. 3, 5, 11, 13, 16, 23, 26, 31, 32, 38, 40, 41, 43
- 22) 13.8 Change of Variables in Multiple Integrals. 3, 4, 7, 10, 12, 13, 15, 18, 23, 26, 27, 28
- 23) 14.1 Vector Fields. 1, 2, 3, 4, 5, 6, 8, 9, 14, 19, 21, 22, 27, 30, 31
- 24) 14.2 Divergence and Curl. 5, 10, 13, 14, 15, 19, 20, 27, 28
- 25) 14.3 Line Integrals. 3, 6, 7, 11, 18, 21, 25, 29, 30, 36
- 26) 14.4 Independence of Path and Conservative Vector Fields. 3, 7, 11, 14, 17, 20, 21, 23, 26, 27, 31, 33, 37, 42
- 27) 14.5 Greens' Theorem. 2, 3, 7, 12, 15, 18, 28, 29
- 28) 14.7 Surface Integrals. 5, 7, 10, 15, 17, 21, 25, 28, 29
- 29) 14.8 The Divergence Theorem. 3, 5, 8, 10, 17, 19
- 30) 14.9 Stokes' Theorem. 3, 5, 9, 11, 14, 17, 24