Suggested exercises from *Calculus: Early Transcendentals* 3rd edition by Briggs, Cochran Gillett

Section		Recommended problems (odds unless stated otherwise)
12.1	Parametric Equations	11-23, 27-31, 35-45, 51, 53, 67, 69, 73-83, 87, 89, 91
12.2	Polar Coordinates	9-19, 23-47, 55, 57, 61, 69, 71, 77
12.3	Calculus in Polar Coordinates	11, 15, 21, 25, 29-37, 41, 43, 51, 57, 61, 65, 69, 75 a&b
12.4	Conic Sections	13, 17, 21, 25, 29, 35, 37, 41, 43, 49, 51, 53, 55, 57, 61, 69, 73
13.1	Vectors in the Plane	5, 7, 13-19, 23-27, 31-55, 61, 65, 69, 87
13.2	Vectors in Three Dimensions	9-13, 19, 27-39, 43, 45, 49, 51, 53, 61-69, 73, 76, 82
13.3	Dot Product	13-21, 25-29, 35-47, 51, 53, 63, 65, 69, 85
13.4	Cross Product	11, 21-35, 43, 45, 58, 62
13.5	Lines and Planes in Space	1, 11-35, 39, 43, 45, 49-53, 65, 67, 73, 79, 81
13.6	Cylinders and Quadric Surfaces	7, 11, 15-19, 29, 33, 37, 41, 53, 55, 57, 59, 62, 63
14.1	Vector-Valued Functions	11, 13, 31-35, 39-45, 47, 55
14.2	Calculus of Vector Valued Functions	9-25, 29-41, 53-75
14.3	Motion in Space	13, 15, 21, 23, 35, 39, 41, 45, 47, 49, 51, 53
14.4	Length of curves	13-25, 43 a & b
14.5	Curvature and Normal Vectors	15, 17, 23, 25, 29, 35, 39,45
15.1	Graphs and Level Curves	15, 17, 19, 21, 23, 35, 37, 57
15.2	Limits and Continuity	13-29, 33, 35, 39, 41, 45, 49-55, 59, 63, 79
15.3	Partial Derivatives	3, 11, 13, 15, 19, 23-27, 33
15.4	Chain Rule	11, 15, 21, 23, 27, 29, 33, 35, 39, 49, 51, 53, 57, 61, 63
15.5	Directional Derivatives and the Gradient	11, 13, 17, 19, 23, 29, 31, 33, 35, 37, 39, 49, 53, 61, 65, 67, 69
15.6	Tangent Planes and Linear Approximation	11, 15, 17, 21, 25, 27, 29, 31, 35, 37, 39, 51a, 55
15.7	Maximum/Minimum Problems	9, 11, 17, 21, 25, 27, 37, 43, 47, 51, 55, 63-67
15.8	Lagrange Multipliers	7, 9, 17
16.1	Double Integrals over Rectangular Regions	9, 13, 17, 19, 27, 31, 37, 41, 43, 47, 49, 51, 59
16.2	Double Integrals over General Regions	11, 19, 27, 29, 33, 39, 41, 45, 47, 55, 61, 63, 69, 71, 75, 85, 89, 91
16.3	Double Integrals in Polar Coordinates	11, 13, 17, 19, 21, 27, 29, 31, 41, 43, 45, 49, 55
16.4	Triple Integrals	7, 9, 13, 17, 25, 27, 31, 35, 37, 41, 45, 47, 49, 51, 55 a & b

16.5	Cylindrical and Spherical Coordinates	15, 17, 19, 25, 27, 31, 41, 45, 51,59
16.6	Integrals for Mass Calculations	11, 19, 21, 25, 29, 33, 37, 39 a &b
17.1	Vector Fields	24, 27, 31, 35, 37
17.2	Line Integrals	17, 19, 25, 27, 31, 41, 43, 51, 57, 59
17.3	Conservative Vector Fields	13, 15, 19, 21, 23, 31, 33, 35, 39, 45, 51, 57
17.4	Green's Theorem	31, 33, 39
17.5	Divergence and Curl	11, 13, 27, 33