

MATH 31: CALCULUS BY VARBERG, PURCELL & RIGDON 8TH EDITION

2.4: 5, 6, 8, 9, 11, 13, 14, 15, 16, 19, 22, 29, 31, 32, 39, 41

2.5: 2, 5, 6

Additionally write the ϵ, δ definition of each of the following:

$$\lim_{x \rightarrow c} f(x) = L, \lim_{x \rightarrow c} (f(x) - L) = 0, \lim_{x \rightarrow 0} f(x) = L, \lim_{x \rightarrow c} f(x - c) = L$$

2.6: 13, 15, 18, 20, 23, 26, 28, 29, 34, 38, 43, 45, 46

Additionally, for problem 36, write the ϵ, δ -definition of each limit

2.7: 1,5,7, 9,17, 18

2.8: 3,7,9,11,12, 13-16, 19, 21, 23, 25, 33-36, 39, 40, 42, 45, 46, 49g,h

2.9: 4, 5, 9, 11, 12, 17,19, 20, 24,27, 30, 33, 36,37, 39, 40, 47

3.1: 3, 5, 7, 9, 10, 12, 13, 14, 16, 17, 18, 20, 22, 23, 25, 27

3.2: 3, 4, 9, 14, 15, 16, 19, 22, 37, 39, 40, 41

3.3: 3, 5, 8, 14, 15, 19, 22, 31, 32, 37, 40, 45, 46, 49, 50, 51, 52, 55, 58,59

3.4: 9-12, 15,16,19,21,23

3.5: 3, 4, 7, 10, 11, 12, 15, 17, 19, 22, 23, 28, 29, 32, 35, 36, 37, 42, 44, 46

3.6: 2, 3, 6, 7, 10, 11, 13, 14, 25, 26, 27, 28, 31, 32, 33

3.7: 4, 5, 8, 11, 13-16, 21, 22, 23, 28, 29, 30, 31, 32, 33, 34, 41

3.8: 2, 3, 7, 8, 9, 10, 11, 12, 14, 15, 17, 20, 21, 25, 28, 33, 36, 38, 41, 42, 49

3.9: 2, 3, 4, 6, 7, 12, 13, 14, 15, 16, 19, 27

3.10: 10, 11, 16, 17, 19, 20, 21, 22, 24, 26, 27, 28, 35

4.1: 4, 5, 7-12, 17, 22, 23, 24, 27, 28, 30, 31, 33, 35, 45, 49

4.2: 5, 7- 10, 15, 16, 17, 21, 22, 24, 27, 29, 30, 33, 34, 37, 39

4.3: 4, 5, 9, 12,14, 15, 17, 18, 19, 21, 23, 24, 30

4.4: 6, 7, 9, 11-13, 16, 17, 19, 23, 26, 27, 28, 31, 34

4.6: 8, 9, 11, 12, 14, 16, 19, 20, 29, 31, 32, 37, 39, 52, 53

4.7: 6-9, 19, 22, 24, 29-34, 44, 45, 51

5.1: 3, 4, 5, 7, 8, 15, 16, 21-26, 28-38

5.2: 1 - 10, 15, 16, 17, 18, 21 - 26, 28, 29, 30, 35, 36

5.3: 5, 6, 11, 12, 22, 27, 33, 34, 37, 41, 46

5.4: 4, 5, 7, 8, 12, 13, 19-21

5.5: 7, 8, 11, 12, 17, 18, 24

5.6: 1, 3, 11, 12, 13-20, 29, 45-50

5.7: 4, 5, 7, 8, 9, 10, 11, 12, 15, 16, 19, 20, 23, 24, 25, 26, 33, 34, 39, 41, 58.

5.8: 5-7, 10, 17, 19, 26, 29, 34, 37, 43, 46, 57, 65, 66

11.2: 3-6, 21, 22, 23

11.3: 1, 2, 5, 6, 9, 23, 24