

## MATH 2224 ASSIGNMENT SHEET

Textbook: University Calculus by Hass, Weir, and Thomas

	Section	Homework Problems
Chapter 10 (2-3 lessons) <sup>†</sup>	10.5	p. 650 # 1, 3, 21, 24, 57
	10.6	p. 656 # 7-12, 14, 33, 36, 37, 38, 42. For # 38, 42 also sketch the different types of cross sections $y = \text{constant}$ p. 658 # 66, 76
Chapter 12 (11-12 lessons) <sup>†</sup>	12.1	p. 708 # 3ab, 4c, 6ab, 8abc, 9ab, 10ab, 13-18, 20a, 22ab For # 3, 6, 8, 9, 10 (p.708) also sketch the domain.
		p. 780 # 8 (domain, range only)
	12.2	p. 717 # 6, 14, 30b, 36, 51, 56, 58
	12.3	p. 728 # 4, 14, 17, 26, 29, 36, 41, 44, 45
	12.4	p. 737 # 2, 7 <sup>+</sup> , 9 <sup>+</sup> , 11 <sup>+</sup> , 29, 39, 40 (only the volume) p. 780 # 31 <b>+ only the chain rule, not directly</b>
	12.5	p. 746 # 4, 9, 14, 15, 17, 20, 24, 27, 30, 31
	12.6	p. 754 # 2a, 5a, 10, 11, 19, 20, 25a, 28a, 39c, 47, 48, 49
	12.7	p. 763 # 4, 19, 23, 26, 30, 31, 34, 51ac (i only), 54a (i and ii) p. 780 # 75, 76, 79
Chapter 13 (9 lessons) <sup>†</sup>	13.1	p. 789 # 5, 7, 9, 24
	13.2	p. 797 # 3, 4, 5, 8, 10, 19, 24, 26, 32, 35*, 36* <b>* set-up only - do not evaluate</b>
	13.3	p. 801 # 4*, 5*, 15b
	13.4	p. 806 # 2, 3, 7, 12, 13*, 31a
	13.5	p. 813 # 3, 5*, 6, 10, 21a, 26*, 33*, 34, 35*, 36*, 41
	13.6	p. 822 # 1*, 12*, 13*, 25a*, 29ab, 33*, 34* p. 846 # 29
	13.7	p. 833 # 1, 4, 11a, 12a, 14, 21, 22, 31a, 32a, 40ab, 41ab, 54*, 55 p. 846 # 31a, 32a, 33a, 34abc, 36ab
Chapter 8 (12 lessons) <sup>†</sup>	8.1	p. 511 # 2, 3, 7, 19, 25, 27, 35, 41, 42, 44, 53, 66, 74, 81, 104 p. 573 # 17
	8.2	p. 522 # 1, 4, 14, 22, 23, 28, 30, 38, 39, 45, 48
	8.3	p. 527 # 2, 5, 6, 9, 25, 28, 33a, 34
	8.4	p. 532 # 2, 3, 5, 6, 8, 19, 20, 24, 27, 28, 38, 39
	8.5	p. 536 # 1, 2, 11, 18, 21, 22
	8.6	p. 542 # 5, 6, 10, 13, 15, 16, 17, 18, 19, 21, 23, 33, 47, 50
	Review	p. 573 # 24, 27, 28, 30, 31, 33, 34, 36, 37, 40
	8.7	p. 552 # 8a, 9a, 10a, 11a, 15a, 18a, 25a, 48b
	8.8	p. 558 # 11, 13, 16, 25, 27
8.9 <sup>‡</sup>	p. 567 # 2, 3, 15, 17, 19, 25, 26, 32 p. 573 # 53, 54, 69, 70	

<sup>†</sup> The number of lessons is based on a 50 minutes class.

<sup>‡</sup> Problems of Sec. 8.9 are used to practice ideas introduced in 8.7 and 8.8. In particular, Theorems 22 and 23 are not on the syllabus.