Calculus Unit #7: Integration (Ch 6)

Area and Volume - I can find the area between curves and the volume of a solid of revolution.

Day	Lesson	Assignment
Day 1 **Area and Volume**	6.1 Area of a Region Between Two Curves I can evaluate definite integrals to find the area between curves. **Khan: Area between two curves given end points**	p. 413: 1-6, 13-23 odd (evaluate by hand) Advanced: 6, 15, 21, 23
Day 2 **Area and Volume**	6.1 Area of a Region Between Two Curves I can use a graphing calculator to help find the area between curves. **Khan: Area between two curves, horizontal area between curves**	p. 413: 27-37 odd, 41, 49, 51 (use calculator to evaluate) Advanced: 33, 37, 49, 51
Day 3 **Area and Volume**	6.2 Volume: The Disc (Washer) Method I can find the volume of a solid using the disc/washer method. **Khan: Disc method: revolving around x- or y-axis, washer method: revolving around x- or y-axis**	p. 423: 1-10 all (evaluate by hand) Advanced: 1-10 evens
Day 4 **Area and Volume**	6.2 Volume: The Disc (Washer) Method I can find the volume of a solid using the disc/washer method. **Khan: Disc method: revolving around other axes**	p. 423: 11-21 odd, 24 (evaluate by hand) Advanced: 11, 13, 15, 21
Day 5 **Area and Volume**	6.2 Volume: The Disc (Washer) Method I can find the volume of a solid using the disc/washer method. **Khan: Washer method: revolving around other axes**	p. 423: 29-35 odd, 39, 40, 47 (use calculator to evaluate) Advanced: 29, 35, 39, 40
Day 6 **Area and Volume**	6.3 Volume: The Shell Method I can find the volume of a solid using the shell method. **Khan: Shell method**	p. 432: 1-10 all (evaluate by hand) Advanced: 1-10 evens
Day 7 **Area and Volume**	6.3 Volume: The Shell Method I can find the volume of a solid using the shell method. **Khan: Shell method challenge**	p. 432: 13-21 odd, 29 (evaluate by hand) Advanced: 17, 19, 21, 29
Day 8	**Khan Academy Review Day**	Work on Khan sections from this chapter

Day 9	**Assessment 17: Area and Volume**	Assessment
Day 10	7.7 Indeterminate Forms and L'Hopital's Rule I can find the limit of an indeterminate function using L'Hopital's Rule. **Khan: L'Hôpital's rule: 0/0, L'Hôpital's rule: ∞/∞**	p. 530: 7, 9, 13, 15, 19, 21, 29-35 odd, 55, 56 Advanced: 7, 29, 33, 35, 56