Seminar Pre-Calculus: Assignments for Chapters 0, 1, 2

1. Pg. 11: 7, 9, 19, 27, 47-52 (Interval Notation. Rules of Exponents)
   Pg. 19: 13, 19, 25, 43, 45, 49, 53, 57 (Distance, Midpoint, Eq. of Circle. Absolute Value Inequality)
   Pg. 157: 1-10, 11, 15, 17 (Tool Kit Functions. Math Models)

2. Pg. 175: 1-11 odd, 19-23 odd, 27, 29, 35, 37, 43, 55, 57, 61, 77
   (Polynomial, Linear, Quadratic Functions, Rates of Change)

3. Pag 203: 3, 15, 21, 22, 25-28, 37, 39, 41, 49, 53-56, 73, 74 (Graphs of Polynomial functions)

4. Pg. 216: 3-5, 8, 11, 15, 17, 21, 23, 27, 29, 33, 35, 49, 51, 55, 59, 67
   (Long/Synthetic Division, Factor/Remainder Theorems. Rational Roots Theorem)

5. Pg. 227: 3.7, 13, 26, 31, 35, 37, 43, 49, 56, 62(b) (Complex numbers)
   Pg. 234: 11, 15, 17, 27, 31, 33, 35, 41, 47, 49 (Complex Zeros)

6. Worksheet on Piecewise Functions

7. Another worksheet on Piecewise Functions

8. Worksheet on Absolute Value Functions as Piecewise


10. Pg. 246: 29, 37, 43, 47, 50, 67 + Worksheet (Removable discontinuities, non-horizontal asymptotes)

11. Pg. 254: 5, 11, 17, 25, 29, 35, 55 + Worksheet on complex fractions

12. Worksheet on solving single variable inequalities

13. Pg. 270: 1, 7, 9, 11, 27, 29, 31, 37, 43, 46, 55, 60, 69, 70, 73, 81, 84 (Chapter 2 Review)
Seminar Pre-Calculus: Assignments for Chapter 3
(Exponential and Logarithm Functions)

52. Worksheet on operations with functions: 1-33 odd
53. Worksheet on operations with functions: 35-67 odd
54. Worksheet reviewing operations with functions: All problems
55. Worksheet on Rules of exponents: Circled problems
56. Worksheet on solving radical equations: Circled problems
57. Worksheet on graphs of exponential functions: Circled problems
59. Pgs. 308-09: 1-55 odd (Logarithm Functions and their graphs)
61. Worksheet on solving Exponential and Logarithmic equations: Circled problems
62. Review worksheet for exponential and logarithmic functions: Circled problems
Seminar Pre-Calculus: Assignments for Chapter 4


15. Worksheet: 1-21 odd, 43-65 odd, 75-85 odd, including area
   (Radians, Arc length, Standard Position)

16. Worksheet: 1-15 odd, 18, 21 (Angular and Linear Speed)

17. Worksheet: 1-17 odd, 39-45 odd, 53-56 (Rt. Triangle Trig)

18. Worksheet: 11, 12, 14, 16, 17, 22, 24 (More Applications)

19. Worksheet: 19-24, 33-38, 47-52 (Special Rt. Triangles)

    (Trig Functions, Ref Angles, Calculator use)

21. Worksheet: 5-51 odd (Special Arcs/Angles)

22. Review Worksheet (TBA)

23. Worksheet I: 1-4, Worksheet II: 1-8 (Sinusoidal Graphs)

24. Worksheet on Graphing (TBA)

25. Worksheet on writing Equations from Graphs (TBA)

26. Worksheet: 1-6, 12, 14, 15 (Graphing Applications)

27. Worksheet on Applications and Graphing Reciprocals (TBA)

28. Worksheet: 9-23 odd (Graphs of other Trig Functions)
Seminar Pre-Calculus: Assignments for Chapter 4 and Chapter 5

29. Worksheet on Graphs of Inverse Trig Relations/Functions: 1-7, 13, 15

30. Worksheet on evaluating Inverse Trig Relations/Functions: 1-41 odd

31. Pgs. 423-425: 1-31 odd, 47, 49

32. Worksheet on Advanced Graphing Techniques: TBA

33. Worksheet on Advanced Graphing Techniques: TBA

34. Pgs. 413-414: 23, 25, 27, 59, 61, 62

35. Pgs. 451-453: 9, 13, 14, 25, 27, 29, 31, 33, 35, 41, 45, 47, 69, 73 (Trig Identities)


37. Pg. 460: 11, 17, 21, 25, 29, 31, 35, 37, 40, 41, 45 (More Identities)

38. Pg. 460: 13, 16, 23, 27, 34, 36, 39, 43, 47, 48 (More Identities)

39. Worksheet on identities, if needed

40. Pgs. 468-69: 1-29 odd, 47, 51, 55 (Sum and difference)

41. Pg. 468: 49, 53 and Pg. 475: 5, 7, 9, 11, 19, 39, 41, 57, 59 (Double Angle, Power Reducing)

42. Pg. 475: 13, 21-35 odd, 58 and Worksheet # 42 (Half Angle)

43. Review Worksheet (Same)

44. Review Worksheet # 2 and Worksheet # 44: 1, 5, 8, 13, 15, 18, 27, 29, 33, 37 (Sum to product)

45. Worksheet # 44: 6, 10, 14, 16, 26, 30, 39, 41, 43 and Worksheet # 45: 1-11 odd, 15 (linear Combination)

46. Worksheet # 45: 4, 8, 13, 17 and Worksheet # 46: 1-13 odd, 17, 21, 25, 29 (Solving Trig Equations)

47. Worksheet # 46: 22, 27, 30, 31, 33, 35, 37 (Same)

48. Chapter Review Worksheet

49. Pg. 484-86: 1 -51 odd (Law of Sines)

50. Pg. 494-96: 1 – 49 odd (law of Cosines)

51. Pg. 497-99: 1-5 odd, 9, 13, 16, 20, 23-27 odd, 35-47 odd, 51, 55, 57, 59, 63, 67 (Chapter Review)
Seminar Pre-Calculus: Assignments for Chapter 6

63. Pgs. 539-40: 1 – 28 (Intro Polar Graphing)

64. Pg. 540: 35 – 50 (Converting equations from r→p and p→r)

65. Pg. 548: 25-30, plus worksheet: (Graphs of lines, circles, roses)

66. Pgs. 548-49: 31-44 (Graphs of limacons, spirals, lemniscates)

67. Worksheet on Polar Graphing

68. Pgs. 558-59: 1-37 odd (Trig forms, DeMoivre’s, Products & Quotients)

69. Pgs. 558-59: 39-61 odd (nth roots, roots of unity)

70. Pgs. 561-63: 15-23 odd, 33-51, odd, 61-71 odd (review)

71. Pgs. 530-33: 1-4, 5-11 odd, 15, 21, 23 (graphs of parametric equations)

72. Pgs. 530-33: 13, 19, 25-31 odd, 33-36, 37, 40, 45 (using parametric equations)
Seminar Pre-Calculus: Assignment for Chapter 8

73. Pg. 639: 1-5 odd, 7-10 all, 31, 35, 41, 45, 53, 55 (Graphing parabolas: focus and directrix)

74. Pg. 639: 11-29 odd (writing equations)

75. Pg. 652: 1-19 odd, 37, 39, 43, 49 (Graphing ellipses)

76. Pg. 652: 21-35 odd, 41, 44, 45, 47, 71(a) (Writing equations, intro to eccentricity)

77. Pg. 663: 7-10, 11, 13, 15, 21, 39, 41 (graphing hyperbolas)

78. Pg. 663: 23-37 odd, 43, 45, 47, 49 (Writing equations of hyperbolas)

79. Pg. 697: 1, 3, 9, 11, 15-20, 21-27 odd, 44, 46, 47 (Review)