

MA 341: Topics in Geometry

Schedule of Topics & Homework

Fall 2009

Aug 26	Day 1 Introduction and a History of Geometry
Aug 28	Day 2 Euclid's <i>Elements</i> : 1.1 – 1.3 pp 13 – 14: 1 – 4
Aug 31	Day 3 Euclid's <i>Elements</i> : 1.4 – 1.6 pp 13 – 14: 8 – 10
Sept 2	Day 4 Homework Discussion
Sept 4	Day 5 Axiomatic Systems: 2.1 – 2.5 pp 29 – 30: 2, 4, 5
Sept 7	Day 6 NO CLASSES – Labor Day
Sept 9	Day 7 Axiomatic Systems: 2.6 – 2.7 pp 29 – 30: 7, 8, 10, 11, 12
Sept 11	Day 8 Theorems, Proofs, & Logic: 3.1 – 3.2 p 42: 1, 2, 3
Sept 14	Day 9 Theorems, Proofs, & Logic: 3.3 – 3.4 p 42: 4, 5, 6
Sept 16	Day 10 Theorems, Proofs, & Logic: 3.5 – 3.6 p 42: 8 – 14
Sept 18	Day 11 EXAM 1
Sept 21	Day 12 Real Numbers: 4.1 – 4.4 pp 50 – 51: 1 – 9, 11 – 13
Sept 23	Day 13 Axioms of Plane Geometry: 5.1 – 5.3
Sept 25	Day 14 Axioms of Plane Geometry: 5.4 – 5.5 pp 90 – 93: 1 – 6
Sept 28	Day 15 Axioms of Plane Geometry: 5.6 – 5.7 pp 90 – 93: 7, 8, 11, 12, 13
Sept 30	Day 16 Axioms of Plane Geometry: 5.8 – 5.10 pp 90 – 93: 19, 21, 24, 26, 27

Oct 2	Day 17 Neutral Geometry: 6.1 – 6.3 pp 132 – 134: 2, 7, 9, 13, 17
Oct 5	Day 18 Neutral Geometry: 6.4 – 6.6 pp 132 – 134: 15, 20, 25, 27
Oct 7	Day 19 Neutral Geometry: 6.7 – 6.8 pp 132 – 134: 32, 33, 34
Oct 9	Day 20 Neutral Geometry: 6.9 – 6.10 pp 132 – 134: 41, 42, 43, 46
Oct 12	Day 21 Neutral Geometry
Oct 14	Day 22 Neutral Geometry
Oct 16	Day 23 Neutral Geometry
Oct 19	Day 24 Neutral Geometry
Oct 21	Day 25 Neutral Geometry
Oct 23	Day 26 Euclidean Geometry: 7.1 – 7.4 pp 156 – 158: 2, 3, 4, 9, 13
Oct 26	Day 27 Euclidean Geometry: 7.1 – 7.4 pp 156 – 158: 2, 3, 4, 9, 13
Oct 28	Day 28 MIDTERM
Oct 30	Day 29 Euclidean Geometry: 7.5 – 7.7 pp 156 – 158: 18, 19, 20, 24, 28
Nov 2	Day 30 Hyperbolic Geometry: 8.1 – 8.3 pp 191 – 193: 1 – 5
Nov 4	Day 31 Hyperbolic Geometry: 8.4 pp 191 – 193: 7 – 11
Nov 6	Day 32 Hyperbolic Geometry: 8.5 – 8.6 pp 191 – 193: 13, 14, 16, 17
Nov 9	Day 33 Area: 9.1 – 9.2 pp 221 – 224: 3 – 6
Nov 11	Day 34 Area: 9.3 – 9.4 pp 221 – 224: 12, 15, 17
Nov 13	Day 35 Area: 9.5 pp 221 – 224: 18, 22

Nov 16	Day 36 Circles: 10.1 – 10.4 pp 259 – 261: 1, 2, 3, 6, 8
Nov 18	Day 37 Circles: 10.5 – 10.6 pp 259 – 261: 13, 14, 17, 19, 29
Nov 20	Day 38 Circles: 10.7 pp 259 – 261: 30, 31, 32, 33
Nov 23	Day 39 EXAM 2
Nov 25	Day 40 NO CLASSES – Thanksgiving Break
Nov 27	Day 41 NO CLASSES – Thanksgiving Break
Nov 30	Day 42 Constructions: 11.1 – 11.3 pp 282 – 283: 2, 4, 6, 8, 10
Dec 2	Day 43 Constructions: 11.4 – 11.5 pp 282 – 283: 18, 22, 23, 24
Dec 4	Day 44 Constructions: 11.6 pp 282 – 283: 26, 27
Dec 7	Day 45 Transformations: 12.1 – 12.2 pp 320 – 325: 1, 3, 4, 5, 7
Dec 9	Day 46 Transformations: 12.3 – 12.4 pp 320 – 325: 14, 15, 17, 18, 19
Dec 11	Day 47 Transformations: 12.5 – 12.7 pp 320 – 325: 28, 29, 30, 35, 48, 49, 53,
Dec 16	Final Exam: 1:00 – 3:00 PM