***Study Guide for 2020 Geometry Honors Mid-Year Examination***
***given by Mr. Baroody***

# Format

- 10 True/False questions @ 1 point each – 10 points total
- 10 Sometimes/Always/Never questions @ 1 point each – 10 points total
- 20 Matching questions @ 1 point each – 20 points
- 30 Multiple Choice questions @ 1 point each – 30 points
- 4 Proofs / Do any 3 @ 10 points each – 30 points

Total of 100 points

# Responsibilities

- All tests and quizzes
- Class notes and homework assignments
- Review problems
- All vocabulary introduced during the semester

# Suggested study guides and activities

- Use topic and vocabulary sheets that are attached
- Look over all tests and quizzes and make sure you can do ***all*** the problems on them (whether you got them correct the first time or not!)
- Look over review problems for Chapters 1-6, 7.1 & 7.2
- Try some problems from the Cumulative Review for Chapters 1-3
- Try some problems from the Cumulative Review for Chapters 1-6
- Utilize extra help sessions!

# Topics for Mid-Year Examination

- Geometry related vocabulary
- Measurement of Segments and Angles (Degrees and Degrees, Minutes, Seconds)
- Chain of reasoning
- Transformation on the coordinate plane (90°, 180°, 270°, and reflection over y=x)
- Symmetry (Rotational and Reflectional)
- Proof Structure
- Probability
- Perpendicularity
- Complementary and Supplementary Angles
- Subtraction & Addition Properties of Angles and Segments
- Multiplication & Division Properties of Angles and Segments
- Transitive Property of Congruent Angles and Segments
- Vertical Angle Theorem
- Triangle Congruence (SSS, SAS, ASA, HL)
- CPCTC
- Types of Triangles
- Triangle Inequality Theorem
- Proving Triangles Congruent (including Overlapping Triangles)
- Isosceles Triangle Theorem
- Basic Properties of Circles
- Indirect Proof
- Right Angle Theorem
- Equidistance Theorem
- Exterior Angle Theorem
- Perpendicular Bisector Theorems
- Parallelism
- Parallel Line Theorems
- Quadrilaterals
- Properties of Quadrilaterals
- Three-Dimensional Concepts and Proofs
- Perpendicularity Among Lines and Planes
- Perpendicular and Parallel Planes
- Sum of the angles of a triangle
- No Choice and AAS Theorems

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| ***Terms*** | ***More terms*** | ***Still more terms!!!*** |
|---|---|---|
| 1. Acute angle | 36. Hypothesis | 71. Plane |
| 2. Adjacent angles | 37. Included angle | 72. Point |
| 3. Alternate interior angles | 38. Included side | 73. Point symmetry |
| 4. Altitude | 39. Interior angle | 74. Polygon |
| 5. Angle | 40. Interior points | 75. Postulate |
| 6. Angle bisector | 41. Intersecting lines | 76. Quadrilateral |
| 7. Base angles | 42. Intersecting planes | 77. Ray |
| 8. Bilateral symmetry | 43. Inverse | 78. Rectangle |
| 9. Bisect | 44. Isosceles triangle | 79. Reflection |
| 10. Coincide | 45. Kite | 80. Reflectional symmetry |
| 11. Collinear | 46. Leg of an isosceles triangle | 81. Reflexive property |
| 12. Complementary | 47. Leg of a right triangle | 82. Regular |
| 13. Concave polygon | 48. Line | 83. Remote interior angles |
| 14. Conclusion | 49. Line perpendicular to a plane | 84. Rhombus |
| 15. Congruent parts | 50. Line segment | 85. Right angle |
| 16. Congruent triangles | 51. Line symmetry/Line of symmetry | 86. Right triangle |
| 17. Consecutive angles | 52. Measure of a segment | 87. Rigid/Non-rigid transformations |
| 18. Consecutive sides | 53. Measure of an angle | 88. Rotation/Rotational symmetry |
| 19. Contrapositive | 54. Median of a triangle | 89. Same side interior angles |
| 20. Converse | 55. Midline | 90. Scalene triangle |
| 21. Convex polygon | 56. Midpoint | 91. Skew lines |
| 22. Coplanar | 57. Non-collinear | 92. Space |
| 23. Corresponding angles | 58. Non-coplanar | 93. Square |
| 24. Corresponding parts | 59. Nonagon | 94. Substitution Postulate |
| 25. Decagon | 60. Oblique | 95. Supplementary angles |
| 26. Diagonal | 61. Obtuse | 96. Theorem |
| 27. Equiangular triangle | 62. Octagon | 97. Transitive Property |
| 28. Equidistant | 63. Opposite rays | 98. Translation |
| 29. Equilateral triangle | 64. Parallel lines | 99. Transversal |
| 30. Exterior angles | 65. Parallel planes | 100. Triangle |
| 31. Exterior points | 66. Parallelogram | 101. Undefined terms |
| 32. Foot | 67. Pentagon | 102. Unique |
| 33. Heptagon | 68. Perpendicular bisector | 103. Vertex |
| 34. Hexagon | 69. Perpendicular lines | 104. Vertical angles |
| 35. Hypotenuse | 70. Perpendicular planes | |