

Exam 1 Review Honors Geometry

Chapters 1-5

1st Semester

Exam

- 79 Questions: 100 points
- #1-20 Short Answer
- #21-32 Chapter 1
- #33-42 Chapter 2
- #43-48 Chapter 3
- #49-60 Chapter 4
- #61-76 Chapter 5
- #77 Proof
- #78-79 Cumulative
- Bring Calculator. No Ipads
- I will have scrap

Ch. 1 Essentials of Geometry

- Classify Angles : right, acute, obtuse, straight
- Angle Pairs: complementary, supplementary, linear, vertical
- Points, Lines, Planes
- Polygons: number of sides
- Distance Formula:
- Midpoint Formula:

Ch 2: Reasoning and Proof

- Conditional Statement:
 - If : Hypothesis
 - Then: Conclusion
- Contrapositive
- Inverse
- Converse
- Conditional

Ch. 3: Parallel and Perpendicular Lines

- Parallel lines cut by a Transversal
 - Pairs of angles formed
- Slopes of Lines: Find
 - Parallel
 - Perpendicular
 - Horizontal
 - Vertical
- Write the equation of line

Ch. 4: Congruent Triangles

- Classify Triangle by Sides
- Classify Triangle by Angles
- Angle Sum: 180°
- Exterior Angle
- Translation, Reflection, Rotation
- Prove 2 Triangles Congruent: SSS, SAS, AAS, ASA, HL
- Use Congruent Triangles: CPCTC
- Isosceles Triangle: BAIT
- Equilateral Triangle:

Ch. 5: Relationships within Triangles

- Midsegments
- Coordinate Proof
- Perpendicular Bisectors: Circumcenter
- Angle Bisector: Incenter
- Median: Centroid
- Altitude: Orthocenter
- Inequality Relationships with sides and angles