

How to review for your Acc. Geometry Final (Thursday, March 3, 2016)

1. Study the exams from chapters 9-12
2. Practice problems from exams, quizzes, homework and chapter reviews. That is, re-work the problems using pencil and paper. Simply looking at the problem and saying, "I think I can do that one" is no substitute for actually completing it. Remember, math is not a spectator sport!
3. Practice the problems **WITHOUT** your calculator. You won't have it for the final, so get used to not having it.
Remember: Bring 2 pencils, lead, and an eraser.

Chapter 9 - Pythagorean Theorem - 16 + (8 need the skill to solve other probs)

- ◆ Simplify radicals, factoring
- ◆ Altitude on Hypotenuse - based in similar triangles, corresponding sides proportional, and means extremes prod theorem.
- ◆ The Pythagorean Theorem, use Pythagorean theorem to show if triangle is acute, right or obtuse
- ◆ Pythagorean triples are based in what? 30-60-90, 45-45-90
- ◆ Distance Formula
- ◆ Pythagorean Theorem in Pyramids, and prisms
- ◆ Trigonometry - SOH - CAH - TOA

Chapter 10 – Circles - 10 + 1 proof

- ◆ Definitions, Chords and Diameters p. 440, Radius Chord Relationships p. 441
- ◆ Calculate Area and Circumference of Circles (Formulas), Arc length vs. arc measure, finding perimeters p. 500
- ◆ Congruent chords p. 446
- ◆ Power Chords
- ◆ Arcs, definitions p. 450 & 451, Angle/Arc/Chord relationships
- ◆ Secants and Tangents, Common Tangent Procedure, Walk - Around problems
- ◆ Angle/Arc relationships - Vertex in, Vertex on, Vertex Outside circle
- ◆ P. 479 & 480
- ◆ If Quad inscribed in a circle, then opp angles suppl. If parallelogram inscribed in circle, then rectangle.
- ◆ Power Theorems (Not Power Rangers) Chord - Chord, Tangent - Secant, Secant - Secant

Chapter 11- Surface Area – 3

- ◆ Area of parallelogram, rectangle, square, triangle, trapezoid, kites, rhombus, regular polygon
- ◆ Remember height is always an ALTITUDE
- ◆ Area of Circles and Sectors
- ◆ Ratio of areas based on ratio of sides of similar polygons.

Chapter 12 - Surface Area and Volume – 5

- ◆ Surface Area of Prisms, pyramids, and cylinders, cones and spheres. Lateral Area vs. Base as they relate to Total Surface Area
- ◆ Volume of prisms, cylinders, pyramids, cones and spheres

Format: 32 Scantron @ 3 points each

A few “workout” problems – area and volume

1 proof 15 points

A couple of bonus problems.

Prepare Well – Be Confident – Relax – and show what you know.