Unit 6 – Geometric Applications of Exponents

J.S

Math 7/8

Unit Standards

- MCC8.G.6
  Explain a proof of the Pythagorean Theorem and its converse.
- MCC8.G.7
  Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions.
- MCC8.G.8
  Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.
- MCC8.G.9
  Know the formulas for the volume of cones, cylinders, and spheres and use them to solve real-world and mathematical problems.

Unit Vocabulary

- Altitude of a triangle
- Base (of a polygon)
- Coordinate Plane
- Coordinate Point of a Plane
- Cone
- Converse of Pythagorean Theorem
- Cylinder
- Deductive Reasoning
- Diameter
- Distance Formula
- Geometric Solid
- Height of Solids
- Hypotenuse
- Leg
- Literal Equation
- Pythagorean Theorem
- Pythagorean Triples
- Radius
- Right Triangle
- Sphere
- Volume