

MPM 1D Chapters 7 - 8 Exam Review

Chapter Seven

Section 7.1

Exploring Interior Angles of Polygons

The sum of the interior angles of an n-gon is $S = (n - 2) \times 180^\circ$.

Work on p. 398 # 2

Section 7.2

Angle Properties of Polygons

The sum of the exterior angles of all polygons is 360° .

The exterior angle of a polygon is equal to the two opposite interior angles.

Work on p. 394 # 2, 7

Chapter Eight

Section 8.1

Determining Optimum Area and Perimeter

Know how to maximize area and minimize perimeter.

Work on p. 432 #3a i and ii, 3b i and ii

Section 8.2

Problems Involving Composite Shapes

Know how to calculate the area of a regular polygon.

Work on p. 440 # 1b, 5ac and review Example Two from handout.

Section 8.3

The Pythagorean Theorem

Know how to solve for all sides of a right angle triangle.

Work on p. 445 #1, 6, 7

Section 8.4

Surface Area of Pyramids and Cones

Know how to calculate the surface area of a cone.

Work on p. 455 #2b, 3c

Section 8.5

Volume of Pyramids and Cones

Know how to calculate the volume of a prism and cylinder as well.

Work on p. 464 #1, 2 and p. 515 #1c (volume only), 2b

Section 8.6

Volume and Surface Area of a Sphere

Work on p. 470 # 2