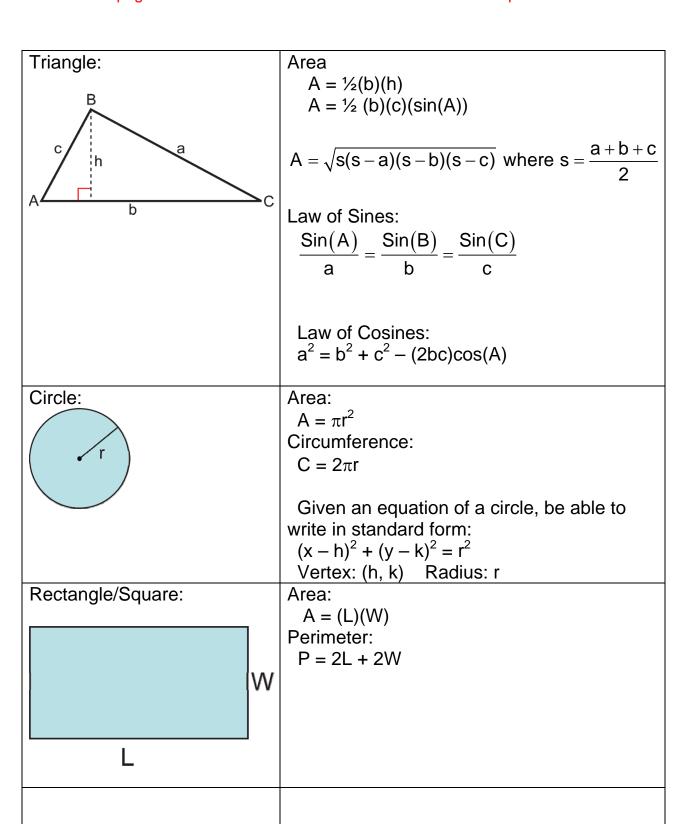
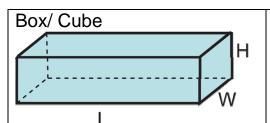
Distance Formula:	$d = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$
Find the distance between two points	
(x_1, y_1) and (x_2, y_2) .	
Sum of Interior Angles	$S_1 = (n - 2)(180)$, where n is the
	number of sides of the polygon.
Pythagorean Theorem	$a^2 + b^2 = c^2$
a	
:	
b	
Arc 1	Angle = 1/2 (arc 1 + arc 2)
Ale	
(\mathcal{L})	
Arc 2	
1	Angle = 1/2(arc 1 – arc 2)
Д	,
/ /	
Arc 2	
(/ c•)	
Arc 1	
Arc length:	$S = r\theta$, where θ is in radians
r/ \S	
/A	





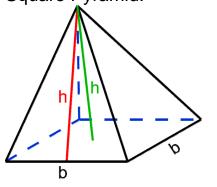
Surface Area:

$$TSA = 2(L)(W) + 2(L)(H) + 2(W)(H)$$

Volume:

$$V = (L)(W)(H)$$

Square Pyramid:



Surface Area:

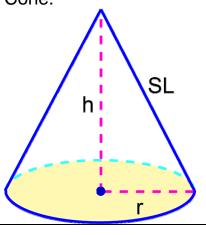
 $TSA = b^2 + 2(b)(h)$, h is the height of one of the triangles.

Volume:

$$V = \frac{1}{3}b^2h$$
, h is the height of the pyramid.

Note:
$$h = \sqrt{\frac{h^2 - b^2}{4}}$$

Cone:



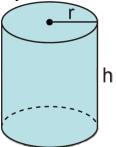
Surface Area:

$$TSA = \pi r^2 + \pi r(SL)$$

Volume:

$$V = \frac{1}{3}\pi r^2 h$$

Cylinder:



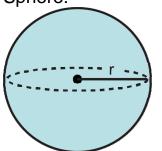
Surface Area:

$$TSA = 2\pi r^2 + 2\pi rh$$

Volume:

$$V = \pi r^2 h$$

Sphere:



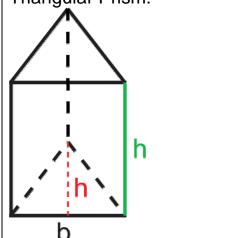
Surface Area:

$$TSA = 4\pi r^2$$

Volume:

$$V = \frac{4}{3}\pi r^3$$

Triangular Prism:



Volume:

 $V = \frac{1}{2}$ (base of triangle)(height of triangle)(height of prism)

$$V = \frac{1}{2} (b)(h)(h)$$

You should also know the following for the final, but is not limited to: State the hypothesis and conclusion of a statement.

Given two points A and B, find a point that divides a line segment a certain distance between A to B.

Proofs about triangles.

Proof by contradiction.

Use parallel lines cut by a transversal line to determine an angle.

Properties of isosceles and equilateral triangles.

Know when two triangles are congruent.

Triangle Inequality Theorem

Know how to use special triangles: $30^{\circ} - 60^{\circ} - 90^{\circ}$ and $45^{\circ} - 45^{\circ} - 90^{\circ}$

Bearing problems: City A, B, C and Coast Guard

Know properties on: Rhombus, Isosceles Trapezoids, Parallelograms,

rectangles

Given points, determine which of the above quadrilaterals they represent.

Understand the constructions from the 6.1 homework.

Understand reflection, rotation, translation and dilation.

Find the perimeter of a regular polygon.

Given points, find the perimeter of the defined points.

Know how to graph: Circle, Ellipse, Hyperbola, and Parabola

If you can do all the chapter test problems without using notes, you will be prepared for the final.