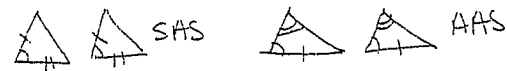
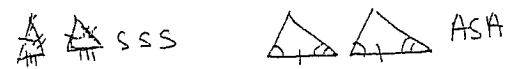
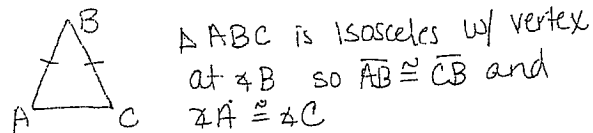
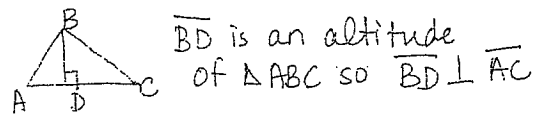
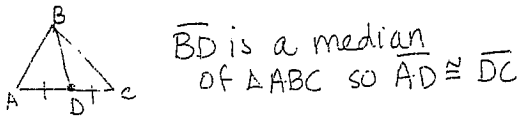
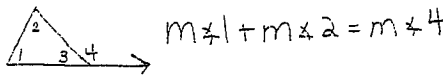
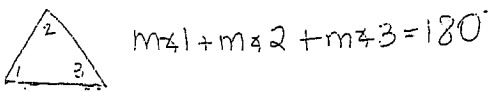
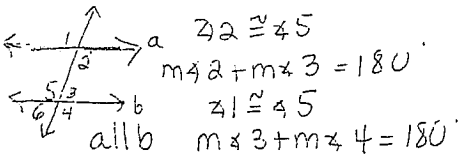
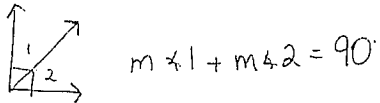
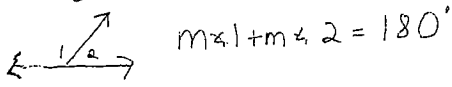
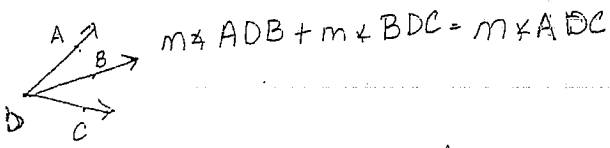
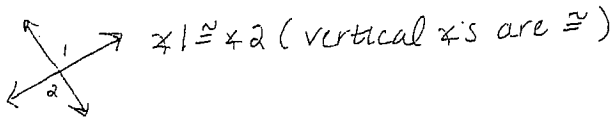


Math 1312 FORMULA SHEET FOR FINAL



Any Polygons:

sum of interior \angle 's = $(n-2)180$

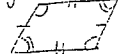
sum of exterior \angle 's = 360

Regular Polygons:

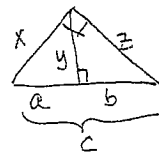
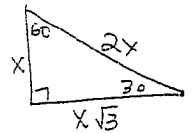
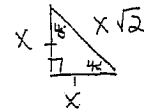
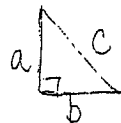
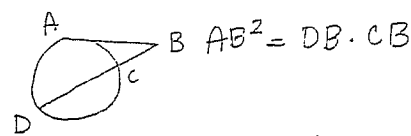
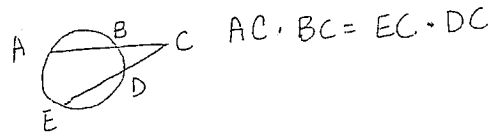
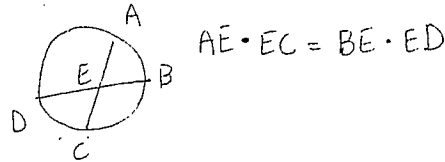
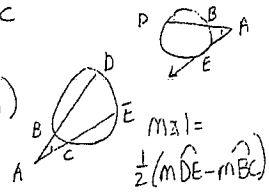
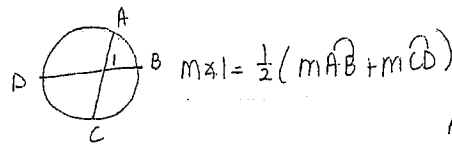
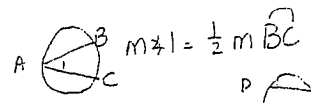
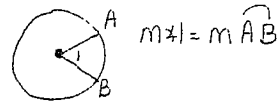
each interior \angle = $\frac{(n-2)180}{n}$

each exterior \angle = $\frac{360}{n}$

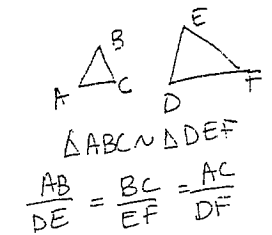
Parallelograms



opp sides parallel
 adjacent \angle 's supplementary



$\frac{a}{x} = \frac{x}{c}$
 $\frac{b}{y} = \frac{y}{c}$



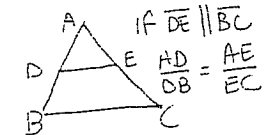
AREA

Triangle $A = \frac{1}{2}bh$

Rectangle/Parallelogram $A = bh$

Trapezoid $A = \frac{1}{2}h(b_1 + b_2)$

Regular Polygon $A = \frac{1}{2}aP$



Surface Area

Prisms: $LA = Ph$, $SA = LA + 2B$

Pyramids: $LA = \frac{1}{2}lP$, $SA = LA + B$

Cylinders: $LA = 2\pi r^2h$, $SA = 2\pi r^2h + 2\pi r^2$

Cone s: $LA = \pi r l$, $SA = \pi r l + \pi r^2$

P = perimeter
 h = height
 l = slant height
 B = area of base

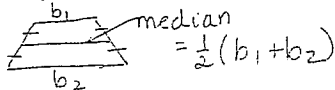
Volume

Prisms: $V = Bh$ Pyramids $\frac{1}{3}Bh$

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

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

Isosceles Trapezoids:



SA of Sphere $SA = 4\pi r^2$