

Cheet Sheet MS 302 Test 1

1.

Theorem (Interior Angles of a Polygon).

$$\text{sum of angles} = (n - 2)180^\circ.$$

2.

Theorem (Heron's Formula). *If a triangle has sides a , b , and c , let*

$$s = \frac{a + b + c}{2},$$

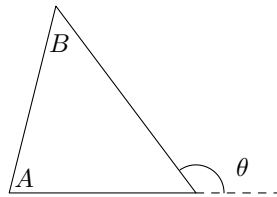
then

$$A = \sqrt{s(s - a)(s - b)(s - c)}$$

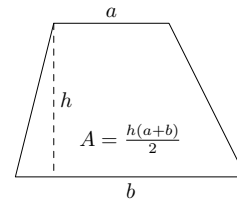
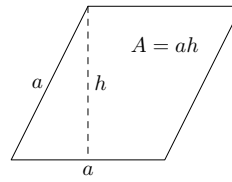
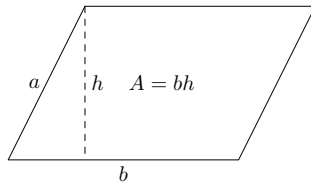
3.

Theorem (Exterior Angle of a Triangle). *An exterior angle equals the sum of the 2 opposite interior angles.*

$$\theta = A + B.$$

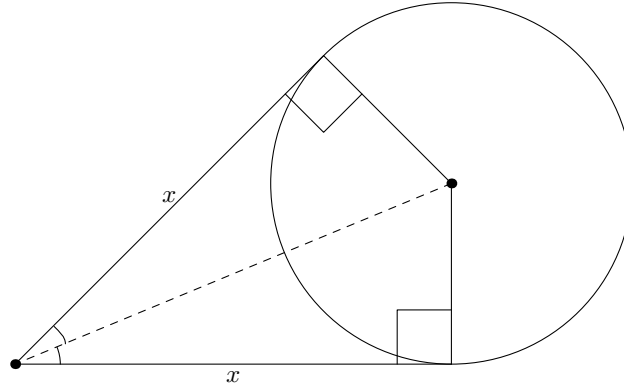


4. Quadrilaterals



5.

Theorem (Tangents to a Circle). *Two tangents drawn to a circle from a point outside the circle are equal and they make equal angles with a line from the point to the center of the circle.*



6. Volumes, Surface Areas, Lateral Areas: I will attach the figures when I hand out the test.