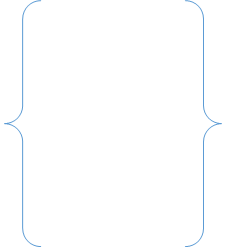
**Lines and Coordinate Geometry**

***Distance:***

***Midpoint:***

Given any two points,

***Slope:***

*a*

*b*

*x*

Geometric Mean

**Triangles**

***Geometric Mean:***

***Law of Sines:***

***Law of Cosines:***

Law of Sines/Cosines

*C*

*b*

*a*

*B*

*A*

*c*

**Polygons**

Sum of Interior Angles:

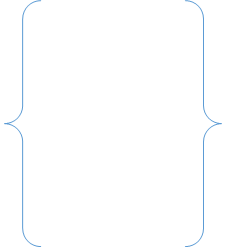
One Interior Angle:

One Exterior OR Central Angle:

**Circles (more on back)**

***Equation of a Circle:***

With center (*h*, *k*) and radius *r*

***Length of Arc:***

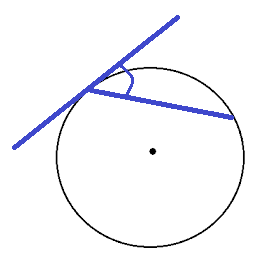
Where *n* is the degrees of the central angle

***Area of Sector:***

**Probability**

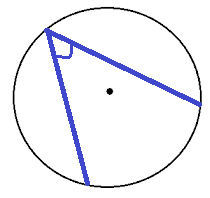
***Conditional:***

***Addition Rule:***



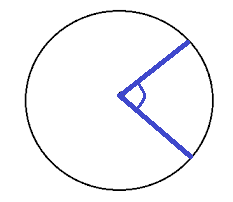
**A**

Angle = arc ÷ 2



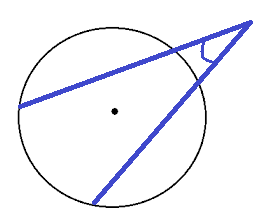
**A**

Angle = arc ÷ 2



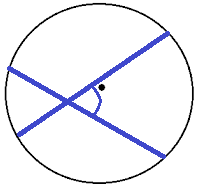
**A**

Angle = arc



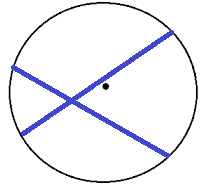
**A**

Angle =



**A**

Angle = (sum of arcs) ÷ 2

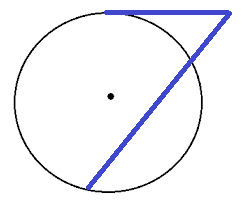


***a***

***c***

***b***

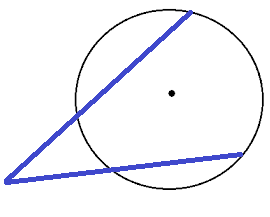
***d***



**A**

**B**

**D**



**B**

**A**

**D**

**C**

**Surface Area Formulas**

r

h

r

l

h

r

h

w

l

l