

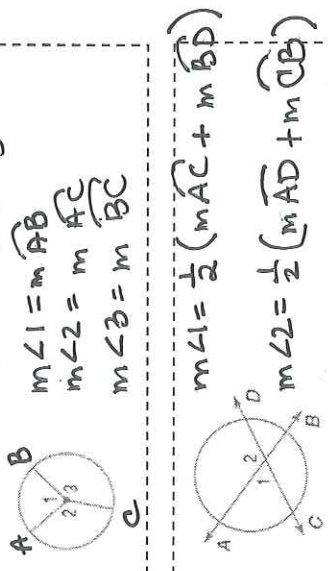
Circumference =  $2\pi r = \pi d$   
 $\pi = 3.14$   
 $d = 2r$   
 $r = \frac{1}{2}d$

distance =  $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$   
 midpoint =  $(\frac{x_2 + x_1}{2}, \frac{y_2 + y_1}{2})$

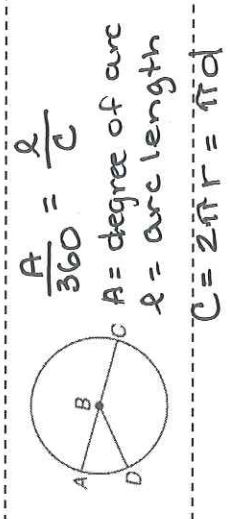
$c^2 = a^2 + b^2$

**Angles INSIDE a circle:**

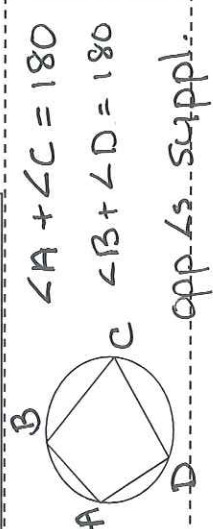
Central angles



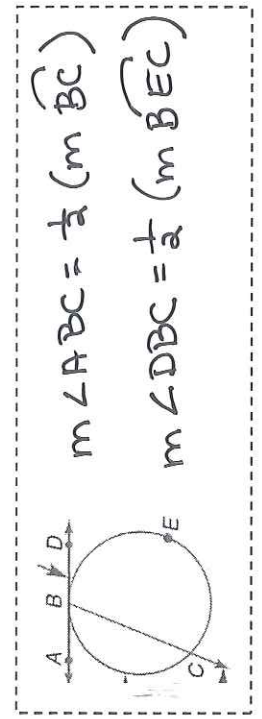
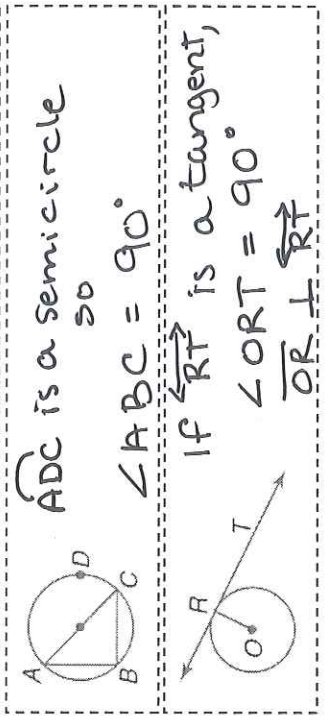
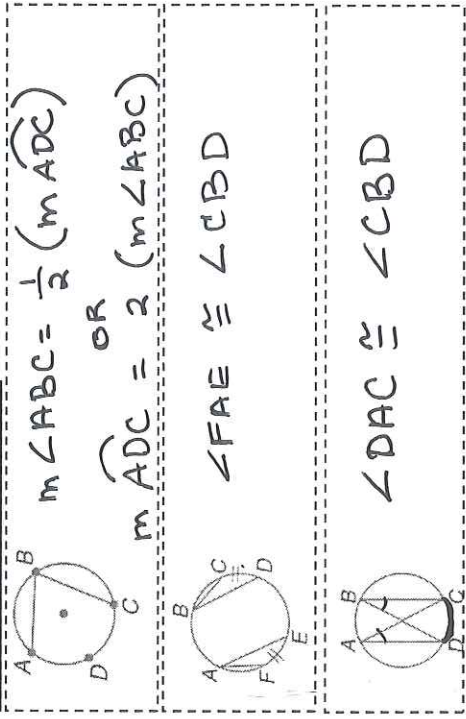
**Arc LENGTH:**



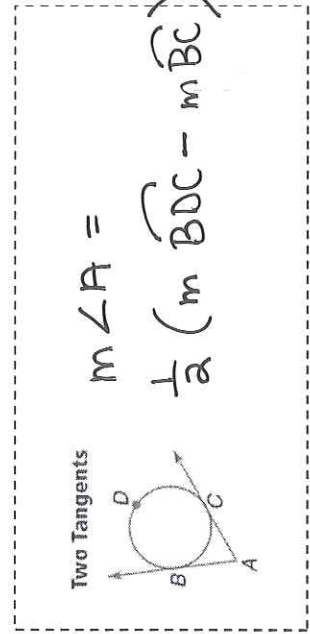
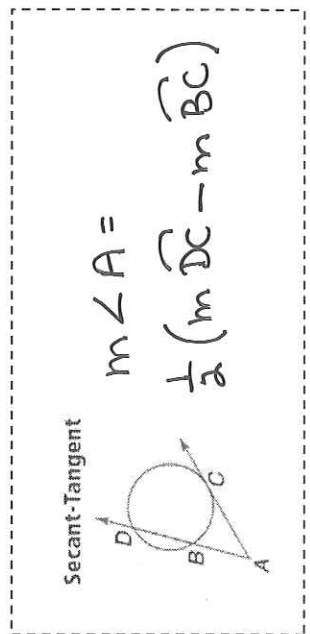
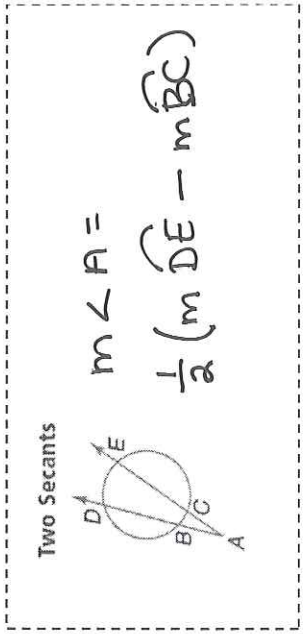
**Inscribed Polygons:**



**Angles ON a circle:**



**Angles OUTSIDE a circle:**



Equation of a circle:

$(x-h)^2 + (y-k)^2 = r^2$

$(h, k)$  = center  
 $r$  = radius

