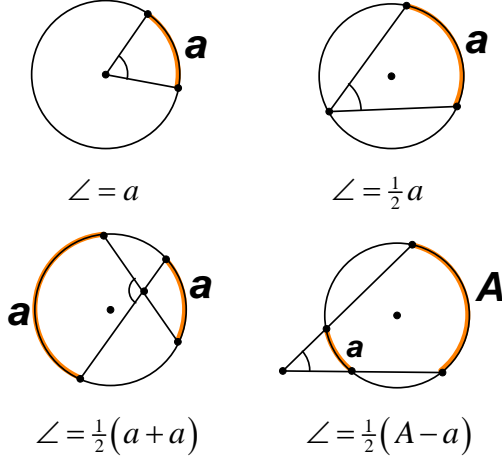
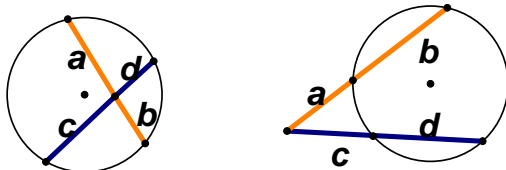
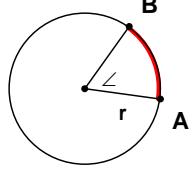
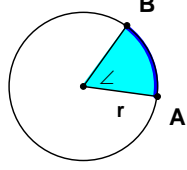


# Geometry SOL Practice

## Topic #11: Circles

### Notes

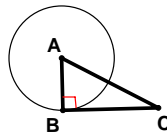
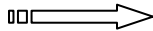
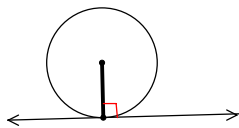
### I. Formulas

Angles	Segments
 <p> <math>\angle = a</math>      <math>\angle = \frac{1}{2}a</math>  <math>\angle = \frac{1}{2}(a + a)</math>      <math>\angle = \frac{1}{2}(A - a)</math> </p>	 <p> <math>(a)(b) = (c)(d)</math>      <math>(a)(a + b) = (c)(c + d)</math>          (outside)(whole) = (outside)(whole)       </p>
Arc Length	Area of a Sector
 <p> <b>Arc Length</b> = a <i>fraction</i> of the <i>circumference</i>  <math>= \left(\frac{\angle}{360}\right) 2\pi r</math> </p>	 <p> <b>Sector</b> = a <i>fraction</i> of the <i>area</i>  <math>= \left(\frac{\angle}{360}\right) \pi r^2</math> </p>

### II. Other

Tangent  $\perp$  radius

$$(AB)^2 + (BC)^2 = (AC)^2$$



**Congruent Segments with Tangents**

