**FORMULAS: ANGLES and CIRCLES**

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| **ANGLE TYPE** | **DIAGRAM** | **FORMULA** |
| Central Angle |  |  |
| Inscribed Angle |  |  |
| Angle formed by chord and tangent |  |  |
| Angle formed by intersecting chords  Note: |  | and |
| Angle formed by two tangents |  |  |
| Angle formed by tangent and secant |  |  |
| Angle formed by two secants |  |  |

**FORMULAS: SEGMENT LENGTHS and CIRCLES**

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| **SEGMENT TYPE** | **DIAGRAM** | **FORMULA** |
| Segments formed by intersecting chords |  |  |
| Two tangents from the same point |  | *a = b* |
| Tangent and a secant |  |  |
| Two secants  (whole secant *x* external piece = whole secant *x* external piece) |  | *b(a + b) = d(c +d)* |