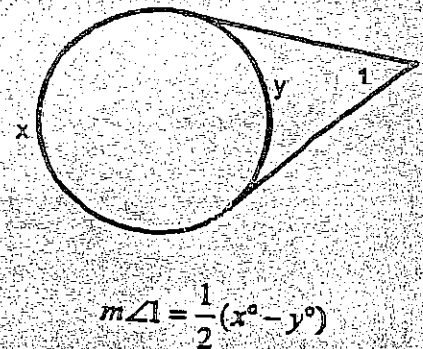
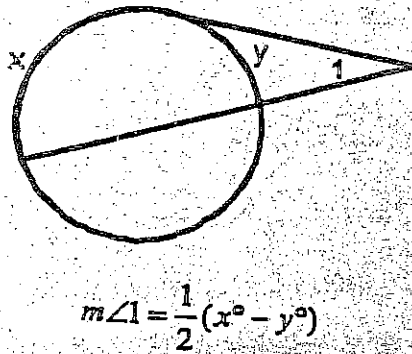
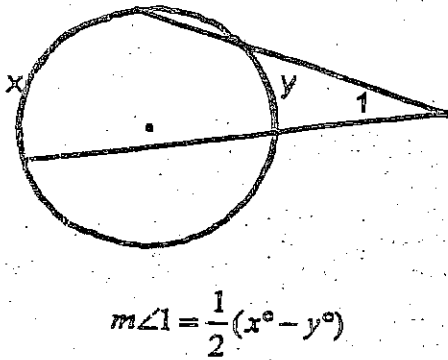
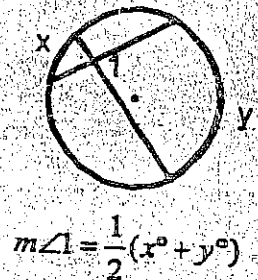
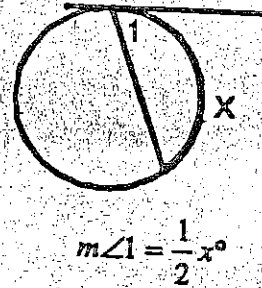
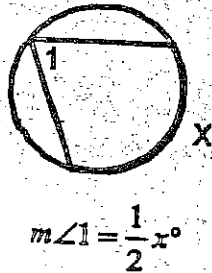
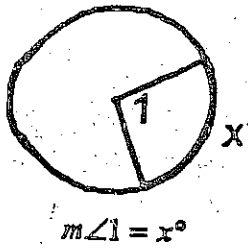


## KEY IDEAS FOR CIRCLES:

1. If a line is perpendicular to a radius of a circle at a point on the circle, then the line is tangent to the circle.
2. If a line is tangent to a circle, then it is perpendicular to the radius at the point of tangency.
3. In the same circle or congruent circles:
  - a. Congruent chords have congruent minor chords.
  - b. Congruent minor arcs have congruent chords and congruent central angles.
  - c. Congruent chords are equidistant from the center.
  - d. Chords equidistant from the center are congruent.
4. If a diameter is perpendicular to a chord, then it bisects the chord and its minor and major arcs.
5. If two inscribed angles intercept the same arc, then the angles are congruent.
6. The following are angle-arc relationships.



7. The following are chord, secant and tangent relationships:

